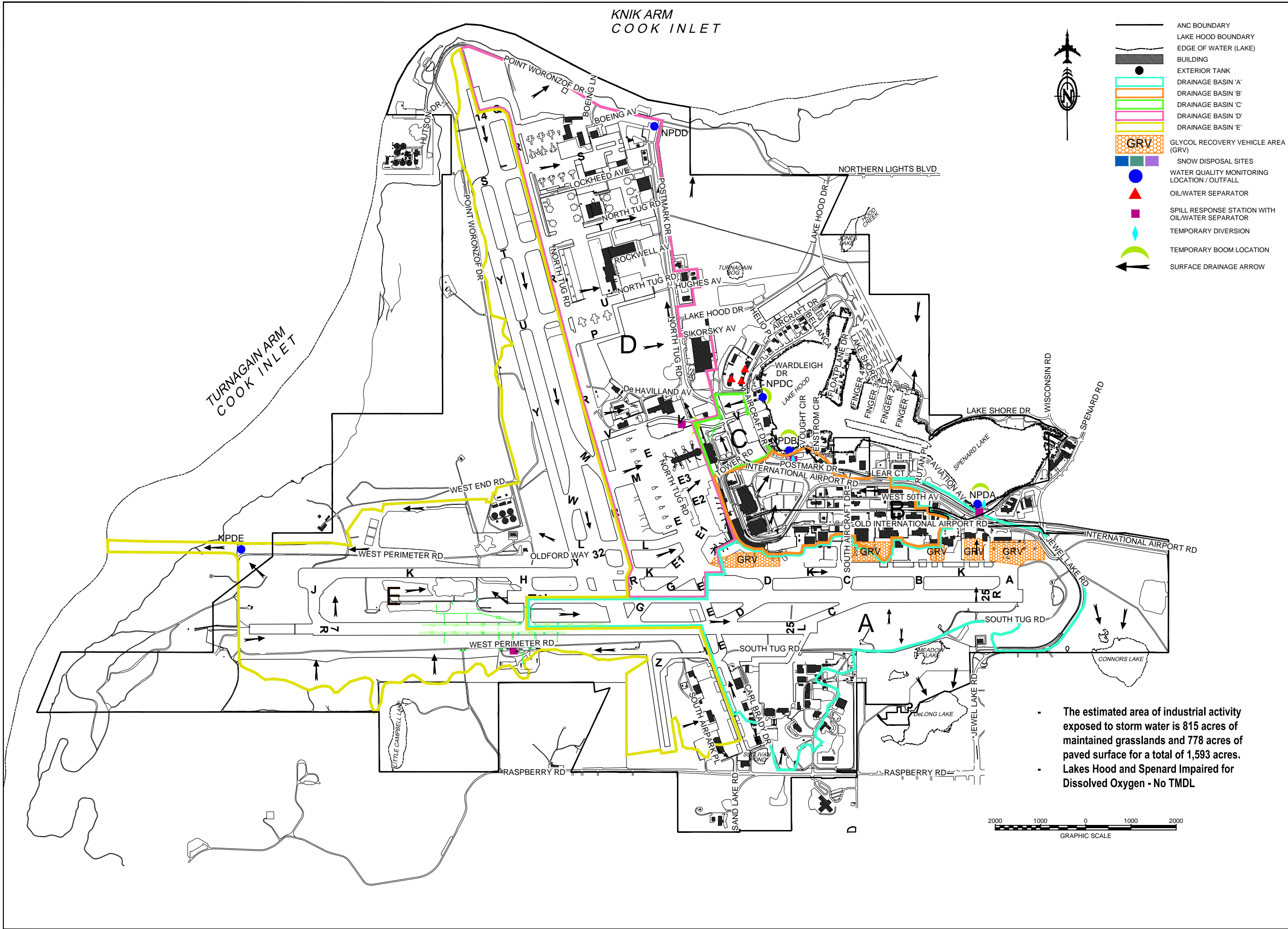


Appendix A

Facility Maps




A-1

REGULATED FACILITIES
OVERALL LOCATION PLAN

2015 STORM WATER POLLUTION
PREVENTION PLAN (SWPPP)

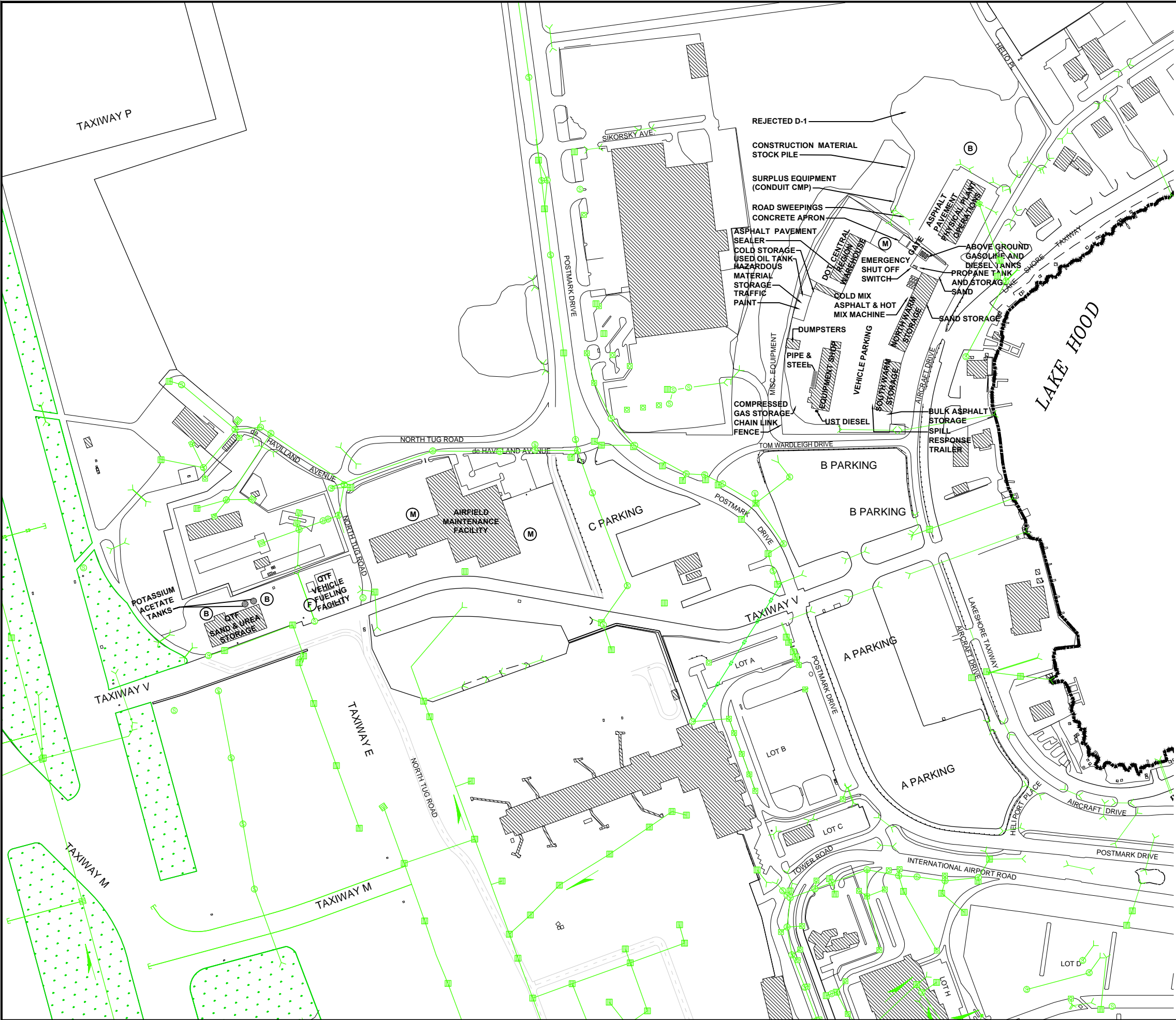
Alaska Department of Transportation
Ted Stevens International Airport
Anchorage, Alaska

Ted Stevens
Anchorage
International Airport

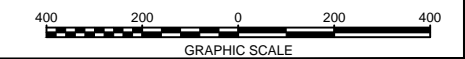


"AeroNexus"

- The estimated area of industrial activity exposed to storm water is 815 acres of maintained grasslands and 778 acres of paved surface for a total of 1,593 acres.
- Lakes Hood and Spenard Impaired for Dissolved Oxygen - No TMDL



- ANC BOUNDARY
LAKE HOOD BOUNDARY
EDGE OF WATER (LAKE)
BUILDING
EXTERIOR TANK
BULK MATERIAL TRANSFER AREA
MACHINERY STORAGE AREA
FUELING AREA
SURFACE DRAINAGE ARROW
STORMWATER CONVEYANCE STRUCTURE
STORM DRAIN INLET
STORM DRAIN MANHOLE
CULVERT INLET/OUTLET STRUCTURE
STORMWATER CONVEYANCE DRAINAGE ARROW
GRASSY SWALES



A-2

MAINTENANCE YARD
MATERIALS INVENTORY
SITE PLAN

2015 STORM WATER POLLUTION
PREVENTION PLAN (SWPPP)

Alaska Department of Transportation &
Public Facilities - Central Region
Ted Stevens International Airport
Anchorage, Alaska

Ted Stevens
Anchorage
International Airport



"AeroNexus"

KNIK ARM
COOK INLET

TURNAGAIN ARM
COOK INLET



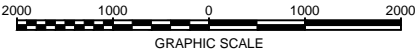
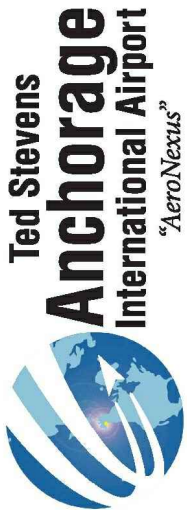
LEGEND	
	ANC BOUNDARY
	LAKE HOOD BOUNDARY
	EDGE OF WATER (LAKE)
	BUILDING
	EXTERIOR TANK
	DRAINAGE BASIN 'A'
	DRAINAGE BASIN 'B'
	DRAINAGE BASIN 'C'
	DRAINAGE BASIN 'D'
	DRAINAGE BASIN 'E'
	RUNWAY DEICING AREA
	GLYCOL RECOVERY VEHICLE AREA (GRV)
	AIRCRAFT DEICING
	WATER QUALITY MONITORING LOCATION / OUTFALL
	OIL/WATER SEPARATOR
	SPILL RESPONSE STATION WITH OIL/WATER SEPARATOR
	TEMPORARY DIVERSION
	TEMPORARY BOOM LOCATION
	SURFACE DRAINAGE ARROW

A-5

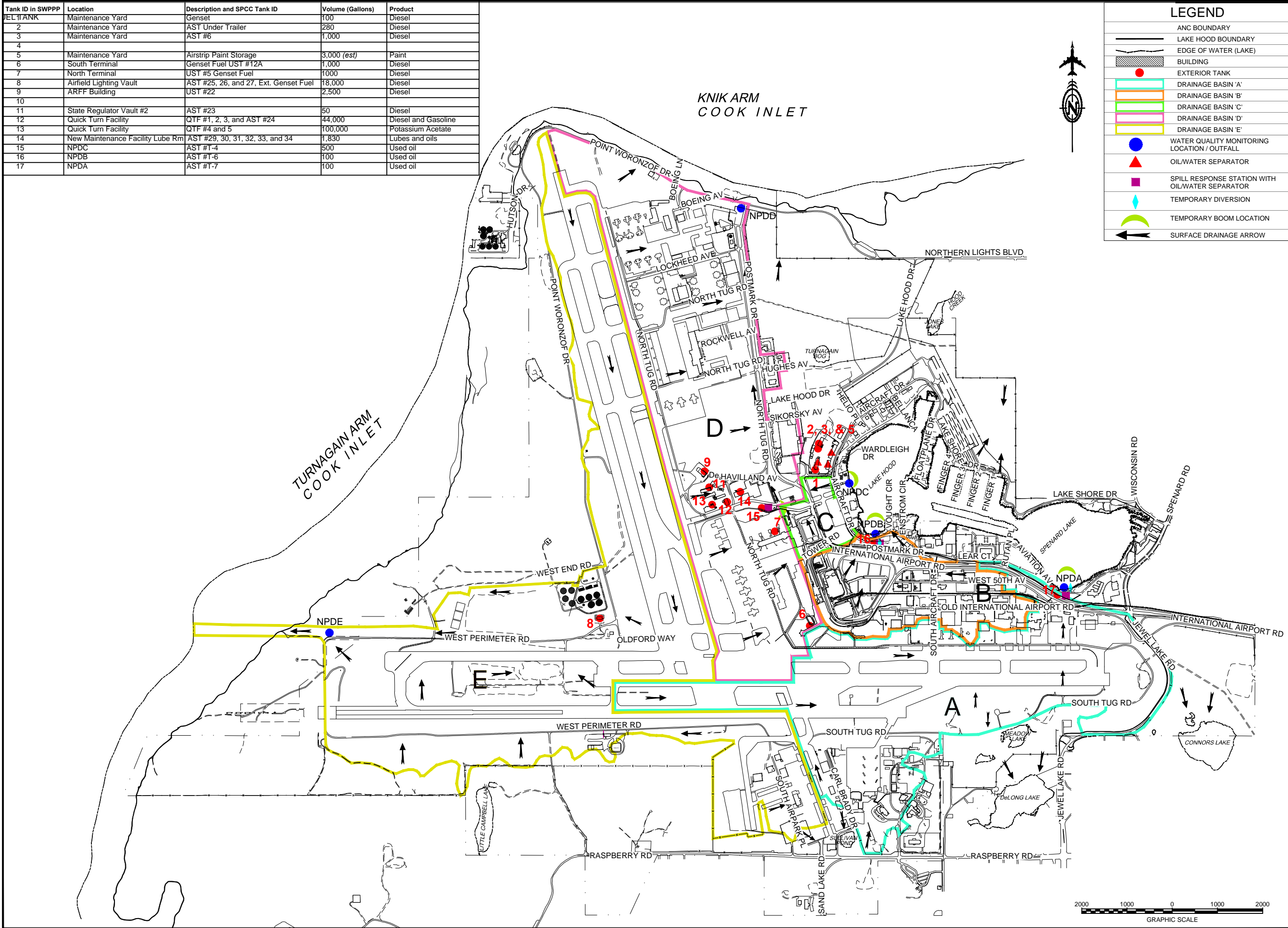
DEICING APPLICATION AREAS
OVERALL SITE PLAN

2015 STORM WATER POLLUTION
PREVENTION PLAN (SWPPP)

Alaska Department of Transportation
Ted Stevens International Airport
Anchorage, Alaska



Tank ID in SWPPP	Location	Description and SPCC Tank ID	Volume (Gallons)	Product
JEL11ANK	Maintenance Yard	Genset	100	Diesel
2	Maintenance Yard	AST Under Trailer	280	Diesel
3	Maintenance Yard	AST #6	1,000	Diesel
4				
5	Maintenance Yard	Airstrip Paint Storage	3,000 (est)	Paint
6	South Terminal	Genset Fuel UST #12A	1,000	Diesel
7	North Terminal	UST #5 Genset Fuel	1000	Diesel
8	Airfield Lighting Vault	AST #25, 26, and 27, Ext. Genset Fuel	18,000	Diesel
9	ARFF Building	UST #22	2,500	Diesel
10				
11	State Regulator Vault #2	AST #23	50	Diesel
12	Quick Turn Facility	QTF #1, 2, 3, and AST #24	44,000	Diesel and Gasoline
13	Quick Turn Facility	QTF #4 and 5	100,000	Potassium Acetate
14	New Maintenance Facility Lube Rm	AST #29, 30, 31, 32, 33, and 34	1,830	Lubes and oils
15	NPDC	AST #T-4	500	Used oil
16	NPDB	AST #T-6	100	Used oil
17	NPDA	AST #T-7	100	Used oil



LEGEND	
	ANC BOUNDARY
	LAKE HOOD BOUNDARY
	EDGE OF WATER (LAKE)
	BUILDING
	EXTERIOR TANK
	DRAINAGE BASIN 'A'
	DRAINAGE BASIN 'B'
	DRAINAGE BASIN 'C'
	DRAINAGE BASIN 'D'
	DRAINAGE BASIN 'E'
	WATER QUALITY MONITORING LOCATION / OUTFALL
	OIL/WATER SEPARATOR
	SPILL RESPONSE STATION WITH OIL/WATER SEPARATOR
	TEMPORARY DIVERSION
	TEMPORARY BOOM LOCATION
	SURFACE DRAINAGE ARROW

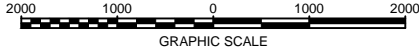
FUEL STORAGE
EXTERIOR TANK LOCATIONS
OVERALL SITE PLAN

A-6

2015 STORM WATER POLLUTION
PREVENTION PLAN (SWPPP)

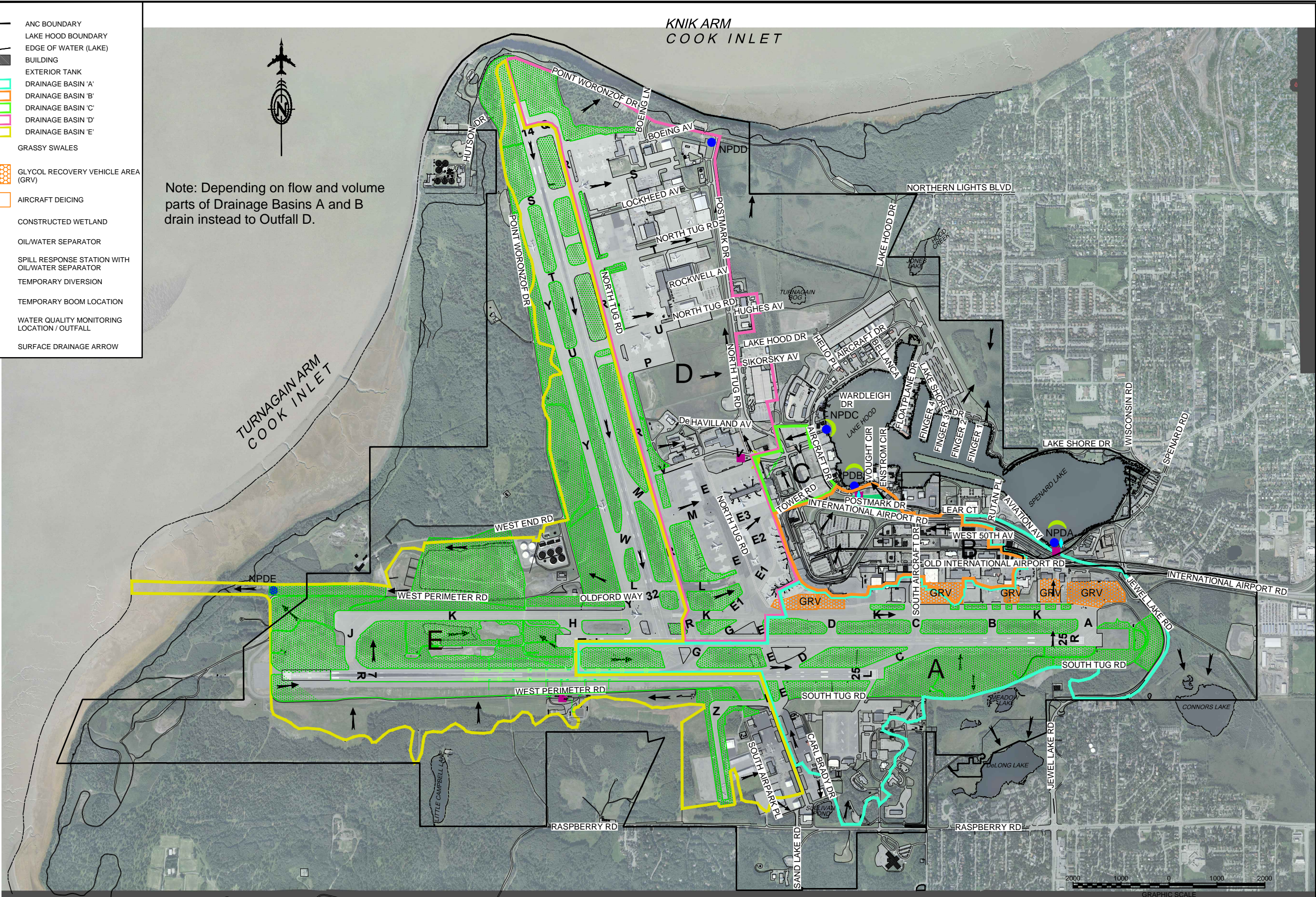
Alaska Department of Transportation &
Public Facilities - Central Region
Ted Stevens International Airport
Anchorage, Alaska

Ted Stevens
Anchorage
International Airport
"AeroNexus"



- ANC BOUNDARY
- LAKE HOOD BOUNDARY
- EDGE OF WATER (LAKE)
- BUILDING
- EXTERIOR TANK
- DRAINAGE BASIN 'A'
- DRAINAGE BASIN 'B'
- DRAINAGE BASIN 'C'
- DRAINAGE BASIN 'D'
- DRAINAGE BASIN 'E'
- GRASSY SWALES
- GRV GLYCOL RECOVERY VEHICLE AREA (GRV)
- AIRCRAFT DEICING
- CONSTRUCTED WETLAND
- OIL/WATER SEPARATOR
- SPILL RESPONSE STATION WITH OIL/WATER SEPARATOR
- TEMPORARY DIVERSION
- TEMPORARY BOOM LOCATION
- WATER QUALITY MONITORING LOCATION / OUTFALL
- SURFACE DRAINAGE ARROW

Note: Depending on flow and volume parts of Drainage Basins A and B drain instead to Outfall D.



A-8

STRUCTURAL BMP
OVERALL SITE PLAN

A 10-2-2017 CLIENT REVIEW

2015 STORM WATER POLLUTION
PREVENTION PLAN (SWPPP)

Alaska Department of Transportation
Ted Stevens International Airport
Anchorage, Alaska

Ted Stevens
Anchorage
International Airport
"AeroNexus"

Appendix B
Benchmark Monitoring Reports – MDMRs
(Quarterly)



Alaska Department of Environmental Conservation

MSGP Industrial Discharge Monitoring Report (MDMR)

Reason(s) for Submission (Check all that apply):		
Submitting monitoring data (fill in all Sections).		
Reporting no discharge for all outfalls for this monitoring period (fill in Sections I, II, III, IV, and VI).		
Reporting that your site status has changed to inactive and unstaffed (fill in Sections I, II, VI and include date of status change in comments field in Section V).		
Reporting that your site status has changed to active (fill in all sections and include date of status change in comments field in Section V).		
Reporting that no further pollutant reductions are achievable for all outfalls and for all pollutants via Part 6.2.1.2 of the MSGP (fill in Sections I, II, and VI).		
Section I. Permit Information		
Permit Tracking Number:		
Section II. Facility Information		
Facility Name:		
<u>Facility Physical Address</u>		
Street:		
City:	State: Alaska	Zip:
Contact Name:	Email:	
MDMR Preparer (Complete if MDMR was prepared by someone other than the person signing the certification in Section VI):		
Prepared By:	Organization:	
Email:	Phone:	
Section III. Discharge Information		
Identify Monitoring Period:	Check here if proposing alternative monitoring periods due to irregular storm water runoff. Identify alternative monitoring schedule and indicate for which alternative period you are reporting monitoring data.	
Quarter 1 (April 1 – June 30)	Quarter 1: From	To
Quarter 2 (July 1 – September 30)	Quarter 2: From	To
Quarter 3 (October 1 – December 31)	Quarter 3: From	To
Quarter 4 (January 1 – March 31)	Quarter 4: From	To
Are you required to monitor for cadmium, copper, chromium, lead, nickel, silver, or zinc?		Yes No (Skip to Section IV)
What is the hardness level of the receiving water?		mg/L
Section IV. Outfall Information		
How many outfalls are identified in your SWPPP?		List names of outfalls required to be monitored in the table below.
Do any of your outfalls discharge substantially identical effluents?		Yes No
If YES, for each monitored outfall, indicate outfall names that are substantially identical in the table below.		
a. Monitored Outfall Name*	b. Substantially Identical Outfalls [List name(s) of outfall(s) that are substantially identical to outfall in a.]	c. No Discharge?

*Reference attachment if additional space is needed to complete the table.

Section V. Monitoring Information

Permit Tracking Number:

Nature of Discharge: Rainfall (complete a, b, and c below) Snowmelt

a. Duration of the rainfall event (hours): b. Rainfall amount (inches): c. Time since previous measurable storm event (days):

[illegible]

* (QBM) – Quarterly benchmark monitoring; (ELG) – Annual effluent limitation guidelines monitoring; (S) – State specific monitoring; (I) – Impaired waters monitoring; (O) – Other monitoring as required by ADEC

Comment and/or Explanation of Any Violations (Reference all attachments here)

Section VI. Certification

	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		
Printed Name and Title of Principal Executive Officer or Authorized Agent		Signature of Principal Executive Officer or Authorized Agent	Date

Email of Principal Executive Officer or Authorized Agent:

Instructions for Completing the MSGP Industrial Discharge Monitoring Report (MDMR)

Who Must Submit A Discharge Monitoring Report to ADEC?

An operator or owner of a facility covered under the Multi-Sector General Permit (MSGP or permit) that are required to monitor pursuant to Parts 6.2, 6.3, and 8 of the permit must submit the MSGP Discharge Monitoring Report (MDMR) consistent with the reporting requirements specified in Part 7.1 of the permit.

Completing the Form

Type or print, in the appropriate areas only. "NA" can be entered in areas that are not applicable. If you have any questions about how or when to use this form, contact the ADEC Storm Water Program at (907) 269-6285 or online at <http://www.dec.state.ak.us/water/wmpspc/stormwater/stormwater.htm>.

Reasons for Submission

Indicate your reason(s) for submitting this MDMR by checking all boxes that apply. The reasons for submission are defined as follows:

- *Submitting monitoring data:* For each storm event sampled, submit one MDMR form with data for all outfalls sampled. Select this reason even if you only have monitoring data for some of your outfalls (i.e., some outfalls did not discharge). If you select this reason, you are required to complete all Sections of the form.
- *Reporting no discharge for all outfalls for this monitoring period:* Indicates that there were no discharges from all outfalls during this monitoring period. If you select this reason, you are only required to complete Sections I, II, III, IV, and VI.
- *Reporting that your site status has changed to inactive and unstaffed:* Indicates that your facility is currently inactive and unstaffed (See Part 6.2.1.3 of the permit for more information). If you select this reason, you are only required to complete Sections I, II, and VI and include date of status change in the comment field in Section V.
- *Reporting that your site status has changed from inactive to active:* Indicates that your facility is currently active (See Part 6.2.1.3 of the permit for more information). If you select this reason, you are required to complete all Sections of the form and include date of status change in the comment field in Section V.
- *Reporting that no further reductions are achievable for all outfalls and for all pollutants via Part 6.2.1.2 of the permit:* Indicates that your facility has determined that no further pollutant reductions are technologically and economically practicable in light of best industry practice to meet the technology-based effluent limitations or are necessary to meet the water-quality-based effluent limitations in Parts 2 of the permit (See Part 6.2.1.2 of the permit for more information). If you select this reason, you are required to complete Sections I, II and VI. However, if you can make this finding for some outfalls and pollutants, but not for others, you cannot select this reason; you will instead be able to identify which outfalls and which pollutants you can make this finding for in Section V.

Section I. Permit Tracking Number

Enter the APDES or NPDES tracking number assigned by ADEC's or EPA's Storm water Program to the facility. If you do not know the tracking number, you can find the tracking number assigned to your facility on ADEC's Water Permit Search www.dec.state.ak.us/water/WaterPermitSearch/Search.aspx or EPA's Notice of Intent (NOI) Search website (www.epa.gov/npdes/noisearch) if you submitted your NOI on EPA's website.

Section II. Facility Information

- Enter the facility's official or legal name. Unless the name of your facility has changed, please use the same name provided on your NOI. You can use ADEC's Water Permit Search, www.dec.state.ak.us/water/WaterPermitSearch/Search.aspx or EPA's NOI Search website (www.epa.gov/npdes/noisearch) to view your NOI if you submitted your NOI on the EPA website.
- Enter the street address, including city, state, and zip code of the actual physical location of the facility. Do not use a P.O. Box.
- Identify the name, telephone number, and email address of the person who will serve as a contact for ADEC on issues related to monitoring at your facility. This person should be able to answer questions related to storm water discharges and monitoring or have immediate access to individuals with that knowledge. This person does not have to be the facility operator but should have intimate knowledge of monitoring activities at the facility.
- If the form was prepared by someone other than the person who is signing the certification statement in Section VI (for example, if the MDMR was prepared by a member of the facility's storm water pollution prevention team or a consultant for the certifier's signature), include the name, organization, telephone number, and email address of the MDMR preparer.

Section III. Discharge Information

- Indicate the appropriate monitoring period (Quarter 1, 2, 3, or 4) covered by the MDMR. "Alternative" monitoring periods can apply to facilities located in arid and semi-arid climates or in areas subject to snow or prolonged freezing. To use alternative monitoring periods, you must provide a revised monitoring schedule here in the first monitoring report submitted and indicate for which alternative monitoring period you are reporting monitoring data. If using alternative monitoring periods, identify the first day of the monitoring period through the last day of the monitoring period for each of the four periods. The dates should be displayed as month (Mo) / day (Day). See Parts 6.1.6 and 6.1.7 of the permit for more information.
- If you are submitting benchmark monitoring data, identify if your facility is required to collect benchmark samples for one or more hardness-dependent metals (i.e., cadmium, copper, lead, nickel, silver, and zinc). If you select "yes" to this question you must also complete the table in Section III, and if you select "no" to this question, you may skip to Section IV.
- If you selected "yes" for the previous question, then you are required to submit to ADEC with your first benchmark report a hardness level established consistent with the procedures in Appendix J of the permit, which is representative of your receiving water. If your outfalls discharge to more than one receiving water, as reported in your NOI form, you should report hardness for the receiving water with the lowest hardness values. Hardness values must be reported in milligrams per liter (mg/L).

Section IV. Outfall Information

- Enter the total number of outfalls identified in your SWPPP. Outfalls are locations where storm water exits the facility, including pipes, ditches, swales, and other structures used to remove storm water from the facility.
- Indicate if your facility has two or more outfalls that you believe discharge substantially identical effluents (i.e., storm water), based on the similarities of the general industrial activities and control measures, exposed materials that may significantly contribute pollutants to storm water, and runoff coefficients of their drainage areas. See Parts 5.1.5.2 and 6.1.1 of the permit for more information on substantially identical outfalls.
- If you selected "yes" for the previous question, then you must list the outfall name(s) in Column b that you expect to be substantially identical to the corresponding outfall in Column a.
 - a. *Monitored Outfall Name:* List name(s) of outfall(s) you are required to monitor.
 - b. *Substantially Identical Outfalls:* List name(s) of outfall(s) substantially identical to "Monitored Outfall" in Column a. (if applicable).
 - c. *No Discharge:* Check box if you are reporting "No Discharge" for the monitored outfall for the reporting period identified in Section III.

Example:

a. Monitored Outfall Name	b. Substantially Identical Outfall	c. No Discharge
Outfall A	Outfall B; Outfall C	<input type="checkbox"/>
Outfall D		<input checked="" type="checkbox"/>

Reference attachments if additional space is needed to complete the table in Section IV.

Section V. Monitoring Information

- Enter the APDES or NPDES tracking number assigned to the facility reported in Section I.
- For the reported monitoring event, indicate whether the discharge was from a rainfall or snowmelt event. If you select "rainfall", then indicate:
 - a. the duration (in hours) of the rainfall event;
 - b. rainfall total (in inches) for that rainfall event; and
 - c. time (in days) since the previous measurable storm event.
- If the discharge occurs during a period of both rainfall and snowmelt, check both the rainfall and snowmelt boxes and report the appropriate rainfall information in items a-c. To report multiple monitoring events in the same reporting period, copy Page 2 of this Form and enter each monitoring event separately with data for all outfalls sampled.
- For each pollutant monitored at an outfall, you must complete one row in the Table as follows:
 - *Outfall Name:* Provide the outfall name for which you monitored (e.g., Outfall 1, Outfall 2, Outfall 3).
 - *Monitoring Type:* Provide the type of monitoring using the specified codes below:
 - QBM – Quarterly benchmark monitoring;
 - ELG – Annual effluent limitations guidelines monitoring;
 - S – State specific monitoring;
 - I – Impaired waters monitoring; or
 - O – Other monitoring as required by ADEC.

Instructions for Completing the MSGP Industrial Discharge Monitoring Report (MDMR)

- *Parameter(s)*: Enter each “Parameter” (or “pollutant”) monitored. For QBM and ELG monitoring, use the same parameter name as in Part 8 of the permit.
- *Quality or Concentration*: Enter sample measurement value for each parameter analyzed and required to be reported. Enter “ND” (i.e., not detected) for any sample results below the method detection limit or “BQL” (i.e., below quantitation limit) for sample results above the detection limit but below the quantitation limit.
- *Units*: Enter the units for sample measurement values (e.g., “mg/L” for milligrams per liter) for each parameter analyzed and required to be reported. For monitoring results reported as ND or BQL, this space will be left blank and the units will be reported under *Results Description*.
- *Results Description*: This section must be completed for any monitoring results reported as ND or BQL in the “Quality or Concentration” column. For ND, report the laboratory detection level and units in this column. For BQL, report the laboratory quantitation limit and units in this column.
- *Collection Date*: Identify the sampling date for each parameter monitoring result reported on this form.
- *Exceedance due to natural background pollutant levels*: Check box if following the first 4 quarters of benchmark monitoring (or sooner if the exceedance is triggered by less than 4 quarters of data) you have determined that the exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background for that outfall and any substantially identical outfalls. See Part 6.2.4.2 of the permit for more information. Attach supporting rationale for your determination to the submitted MDMR and reference attachment in comments portion of Section V.
- *No further pollutant reductions achievable*: Check box if after collection of 4 quarterly samples (or sooner if the exceedance is triggered by less than 4 quarters of data), the average of the 4 monitoring values for any parameter exceeds the benchmark and you have made the determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to meet the technology-based effluent limitations or are necessary to meet the water-quality-based effluent limitations in Parts 2 of the permit (See Part 6.2.1. of the permit for more information) for that outfall and any substantially identical outfalls. Attach supporting rationale for your determination to the submitted MDMR and reference attachment in comments portion of Section V.
- Where violations of the permit requirements are reported, include a brief explanation to describe the cause and corrective actions taken and reference each violation by date. Also, this section should include any additional comments such as are required when changing site status from inactive and unstaffed to active or vice versa. Attach additional pages if you need more space.

Attach additional copies of Section V as necessary to address all outfalls and parameters.

Section VI. Certification

Enter *Printed Name and Title of Principal Executive Officer or Authorized Agent* with *Signature of Principal Executive Officer or Authorized Agent*, and the *Date* this form was signed and the email address of the “*Principal Executive Officer or Authorized Agent*.” If you submit multiple pages of Section V monitoring data, each page must be appropriately signed and certified as described below.

The MDMRs must be signed as follows:

- (1) For a corporation, a responsible corporate officer shall sign the MDMR, a responsible corporate officer means:
 - (A) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
 - (B) the manager of one or more manufacturing, production, or operating facilities, if
 - (i) the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;
 - (ii) the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and

(iii) authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship, the general partner or the proprietor, respectively; or

(3) for a municipality, state, or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of an agency means

(A) the chief executive officer of the agency; or

(B) a senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

Include the name, title, and email address of the person signing the form and the date of signing. An unsigned or undated MDMR will not be considered valid.

Where to File the MDMR Form

Monitoring data collected pursuant to Parts 6.2, 6.3, and 8 of the permit must be reported on the paper MDMR form and sent to the following address:

If you file by mail, please submit the original form with a signature in ink. ADEC will not accept a photocopied signature. Remember to retain a copy for your records.

MSMRs sent by mail:

Alaska Dept. of Environmental Conservation
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, AK 99501
Phone: (907) 269-6285

Appendix C
BMP Inspection Report Form & Reports (Weekly)

**Anchorage International Airport
Weekly Inspection Form**

Date	Time	Inspected By: Tracy Mitchell		Initials: _____	Company: ANC Environmental
Weather		Temperature			
Precipitation		Type: (rain, snow)		Visible Runoff	Snow on ground
BMPs to Look for		Comments / Observations - Enter into AFM Enviro Request any BMPs requiring action-High Priority			
Open swales mowed, cleaned out or excavated					
Swales, outlets free of sediment build-up, brush & other debris					
Absorbent booms to lakes & other pertinent areas in need of replacement					
Oil Weirs @ NPDB & Victor ditch (outfalls to NPDD) in good condition?					
Snow dumps being separated as "clean" and "dirty"					
Leaking vehicles/equipment/spills					
Temporary Coverings intact					
Tank corrosion, deformation or signs of leaking					
Areas needing temporary covering or hydroseeding					
Any broken fencing observed					
GRV seen operating					
Dumpster rust, corrosion, damage. Lids closed. Cleaning needed					
Aerator in Victor ditch (& at Lake Boathouse if it is installed) operational					
Any erosion channels observed in need of maintenance					
Offsite tracking where vehicles enter or exit					
Fire Training Pit water level check, sheen, spills, pond leaks, biological growth or any other problems					
Other: e.g., Fish Templates, hydro-seeded areas growing					
Any need to notify to ADEC (e.g., Firepit Discharge Permit Requirements, Corrective Actions)					
Areas to Inspect					

C Ramp / RON 1-3	Postmark SD	RON 12-14	Alpha SD	NPDE	Outfall - North Pothole of Lake Hood
NT	PAPA 1-3	B Ramp	Kulis	Safety Building #2 (Old Fire Station)	NPDA Old AFM
QTF / AFM	NAP	A Ramp	SAP	Electrical Vault	NPDB Victor Ditch
AARF	RON 7-11	EAP	Fire Training Site	Western NPDD	NPDC

Appendix D
Routine Inspection Report Form & Reports
(Monthly)

Anchorage International Airport Routine Facility Inspection Form
(Monthly)

General Information									
Date of Inspection		Time	Inspector's Name(s)						
			Inspector's Signature						
Current Weather	Temperature:		Precipitation:		Snow Cover:				
	Wind:		Visual Assessments Reviewed		<input type="checkbox"/> Yes	<input type="checkbox"/> No			
			Benchmark Monitoring Results Reviewed		<input type="checkbox"/> Yes	<input type="checkbox"/> No			
Reason for Inspection: <input type="checkbox"/> Routine <input type="checkbox"/> Pre-storm Event <input type="checkbox"/> Post-storm Event <input type="checkbox"/> Storm Event <input type="checkbox"/> Complaint									
Area of Airport Inspected									
Facility			Any Discharges Occurring at Time of Inspection?		Any previously unidentified discharges of pollutants from the site?		Any control measures needing installation, maintenance or repairs?		Any evidence of, or potential for, pollutants entering the drainage system?
Field and Equipment Maintenance Yard and Quick Turnaround Facility			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Vehicle and equipment maintenance and storage;			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Grounds maintenance support;			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Covered bulk material storage, handling and loading;			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Waste handling areas (dumpsters)			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Main Safety Building									
Airport Rescue and Fire Fighting (ARFF)			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Safety Building #2									
Vehicle storage			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Fire Training Facility									
Fire Fighter Training (Fire Pit)			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Runways, taxiways, and aprons									
Runway snow removal,			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pavement deicing,			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Pavement painting, and maintenance			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Above-ground and underground storage tanks									
Chemical and fuel storage;			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Vehicle fueling;			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Power generation (emergency generators)			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Snow storage									
Snow collection and storage			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
Outfalls Inspected									
NPDA			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
NPDB			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
NPDC			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
NPDD			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
NPDE			<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No

Describe any previously unidentified discharges of pollutants on site or any control measures needing maintenance or repairs:

Observations of physical condition of and around outfalls, dissipation devices or other storm water management control devices, evidence of pollution in discharges and/or the receiving waters:

General Site Conditions		
<i>*The following questions relate to general site conditions at the time of the inspection</i>		
Observations		Comments or Corrective Actions Required:
Are natural resource areas such as streams, wetlands and lakes being effectively protected from stormwater discharges with appropriate BMPs?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are there any slopes or disturbed areas needing proper stabilization or BMP implementation?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are materials which are potential stormwater contaminants stored inside or covered?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are there any non-stormwater discharges and, if so, are they properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are there any other site conditions that warrant additional attention, corrective action, any incidents of non-compliance, or revisions needed to the SWPPP?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Were areas where spills and leaks have occurred in the past 3 years been inspected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Certification Statement	
<p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</p>	
Signed: _____	Date: _____
Print Name: John Parrott	Title: Airport Manager

Appendix E
Visual Assessment Form & Assessments
(Quarterly)

ANCHORAGE INTERNATIONAL AIRPORT

QUARTERLY VISUAL ASSESSMENT OF STORMWATER DISCHARGE

MSGP Quarterly Visual Assessment Form			
(Complete a separate form for each outfall)			
Name of Facility:	Anchorage International Airport	NPDES Tracking No.	AKR060000
Outfall Name:	Person(s)/Title(s) collecting sample: Name/Title Person(s)/Title(s) examining sample: Name/Title		
Date & Time Sample Collected:		Date & Time Sample Examined:	
Substitute Sample? <input type="checkbox"/> No	<input type="checkbox"/> Yes (identify quarter/year when sample was originally scheduled to be collected):		
Nature of Discharge: <input type="checkbox"/> Rainfall <input type="checkbox"/> Snowmelt			
If rainfall: Rainfall Amount (inches): _ _		Previous Storm Ended > 72 hours Before Start of This Storm?	<input type="checkbox"/> Yes <input type="checkbox"/> No* (explain):
Parameter			
Color	<input type="checkbox"/> None <input type="checkbox"/> Other (describe):		
Odor	<input type="checkbox"/> None <input type="checkbox"/> Musty <input type="checkbox"/> Sewage <input type="checkbox"/> Sulfur <input type="checkbox"/> Sour <input type="checkbox"/> Petroleum/Gas _____ <input type="checkbox"/> Solvents <input type="checkbox"/> Other (describe):		
Clarity	<input type="checkbox"/> Clear <input type="checkbox"/> Slightly Cloudy <input type="checkbox"/> Cloudy <input type="checkbox"/> Opaque <input type="checkbox"/> Other		
Floating Solids	<input type="checkbox"/> No <input type="checkbox"/> Yes (describe):		
Settled Solids**	<input type="checkbox"/> No <input type="checkbox"/> Yes (describe):		
Suspended Solids	<input type="checkbox"/> No <input type="checkbox"/> Yes (describe):		
Foam (gently shake sample)	<input type="checkbox"/> No <input type="checkbox"/> Yes (describe):		
Oil Sheen	<input type="checkbox"/> None <input type="checkbox"/> Flecks <input type="checkbox"/> Globs <input type="checkbox"/> Sheen <input type="checkbox"/> Slick <input type="checkbox"/> Other (describe):		Other Obvious Indicators of Storm Water Pollution <input type="checkbox"/> No <input type="checkbox"/> Yes (describe):
* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.			
** Observe for settled solids after allowing the sample to sit for approximately one-half hour.			
If applicable, why was it not possible to take samples within the first 30 minutes of an actual discharge from a measurable storm water event?			
Probable sources of any storm water contamination.			
Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary).			
Certification by Facility Responsible Official (Refer to MSGP Appendix A, Subsection 1.12)			
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.			
Name:	John Parrott	Title:	Airport Manager
Signature:		Date Signed:	

Appendix F
Annual Comprehensive Site Inspection & Annual
Report Forms

Anchorage International Airport Comprehensive Facility Inspection Form
(Annual - In Concurrence with MSGP Annual Report Submittal)

General Information

Date of Inspection		Time	Inspector's Name(s)					
			Inspector's Signature					
Current Weather	Temperature:		Precipitation:		Snow Cover:			
	Wind:		Visual Assessments Reviewed	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
			Benchmark Monitoring Results Reviewed	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
Reason for Inspection: <input type="checkbox"/> Routine <input type="checkbox"/> Pre-storm Event <input type="checkbox"/> Post-storm Event <input type="checkbox"/> Storm Event <input type="checkbox"/> Complaint								

Area of Airport Inspected

Facility	Any Discharges Occurring at Time of Inspection?		Any previously unidentified discharges of pollutants from the site?		Any control measures needing installation, maintenance or repairs?		Any evidence of, or potential for, pollutants entering the drainage system?	
	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Field and Equipment Maintenance Yard and Quick Turnaround Facility								
Vehicle and equipment maintenance and storage;	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Grounds maintenance support;	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Covered bulk material storage, handling and loading;	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Waste handling areas (dumpsters)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Main Safety Building								
Airport Rescue and Fire Fighting (ARFF)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Safety Building #2								
Vehicle storage	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Fire Training Facility								
Fire Fighter Training (Fire Pit)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Runways, taxiways, and aprons								
Runway snow removal,	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Pavement deicing,	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Pavement painting, and maintenance	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Above-ground and underground storage tanks								
Chemical and fuel storage;	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Vehicle fueling;	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Power generation (emergency generators)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Snow storage								
Snow collection and storage	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Outfalls Inspected								
NPDA	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
NPDB	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
NPDC	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
NPDD	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
NPDE	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No

Describe any previously unidentified discharges of pollutants on site or any control measures needing maintenance or repairs:

Observations of physical condition of and around outfalls, dissipation devices or other storm water management control devices, evidence of pollution in discharges and/or the receiving waters:

General Site Conditions

**The following questions relate to general site conditions at the time of the inspection*

Observations		Comments or Corrective Actions Required:
Are natural resource areas such as streams, wetlands and lakes being effectively protected from stormwater discharges with appropriate BMPs?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are there any slopes or disturbed areas needing proper stabilization or BMP implementation?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are materials which are potential stormwater contaminants stored inside or covered?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are there any non-stormwater discharges and, if so, are they properly controlled?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Are there any other site conditions that warrant additional attention, corrective action, any incidents of non-compliance, or revisions needed to the SWPPP?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Were areas where spills and leaks have occurred in the past 3 years been inspected?	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Certification Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signed: _____

Date: _____

Print Name: John Parrott _____

Title: Airport Manager _____

<p>3. Did this inspection identify any sources of storm water or non-storm water discharges not previously identified in your SWPPP?</p> <p style="margin-left: 20px;">If YES, describe these sources of storm water or non-storm water pollutants expected to be present in these discharges, and any control measures in place:</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </div>
<p>4. Did you review storm water monitoring data as part of this inspection to identify potential pollutant hotspots?</p> <p style="margin-left: 20px;">If YES, summarize the findings of that review and describe any additional inspection activities resulting from this review:</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA, no monitoring performed </div>
<p>5. Describe any evidence of pollutants entering the drainage system or discharging to surface waters, and the condition of and around outfalls, including flow dissipation measure to prevent scouring:</p>	
<p>6. Have you taken or do you plan to take corrective actions, as specified in Part 8 of the permit, since your last annual report submission (or since you received authorization to discharge under this permit if this is your first annual report), including any corrective actions identified as a result of this annual comprehensive site inspection?</p> <p style="margin-left: 20px;">If YES, how many conditions requiring review for corrective action as specified in Parts 8.1 and 8.2 of the MSGP were addressed by these corrective actions?</p>	<div style="display: flex; justify-content: space-between; align-items: center;"> <input type="checkbox"/> Yes <input type="checkbox"/> No </div>
<p>Note: Complete the attached Corrective Action Form (Section IV) for each condition identified, including any conditions identified as a result of this comprehensive storm water inspection.</p>	

Section III. Industrial Activity Area Specific Findings

Complete one block for each industrial activity area where pollutants may be exposed to storm water. Copy this page for additional industrial activity areas.

In reviewing each area, you should consider:

- Industrial materials, residue, or trash that may have or could come into contact with storm water;
- Leaks or spills from industrial equipment, drums, tanks, and other containers;
- Offsite tracking of industrial or waste materials from areas of no exposure to exposed areas; and
- Tracking or blowing of raw, final, or waste material from areas of no exposure to exposed areas.

Industrial Activity Area: _____

1. Brief Description:

2. Are any control measures in need of maintenance or repair?

☐

Yes

☐

No

3. Have any control measures failed and require replacement?

☐

Yes

☐

No

4. Are any additional/revised control measures necessary in this area?

☐

Yes

☐

No

If YES, to any of these three questions, provide a description of the problem: *(Any necessary corrective actions should be described on the attached Corrective Action Form.)*

Industrial Activity Area: _____

1. Brief Description:

2. Are any control measures in need of maintenance or repair?

☐

Yes

☐

No

3. Have any control measures failed and require replacement?

☐

Yes

☐

No

4. Are any additional/revised control measures necessary in this area?

☐

Yes

☐

No

If YES, to any of these three questions, provide a description of the problem: *(Any necessary corrective actions should be described on the attached Corrective Action Form.)*

Industrial Activity Area:

1. Brief Description:

2. Are any control measures in need of maintenance or repair? ☐ Yes ☐ No

3. Have any control measures failed and require replacement? ☐ Yes ☐ No

4. Are any additional/revised control measures necessary in this area? ☐ Yes ☐ No

If YES, to any of these three questions, provide a description of the problem: *(Any necessary corrective actions should be described on the attached Corrective Action Form.)*

Industrial Activity Area:

1. Brief Description:

2. Are any control measures in need of maintenance or repair? ☐ Yes ☐ No

3. Have any control measures failed and require replacement? ☐ Yes ☐ No

4. Are any additional/revised control measures necessary in this area? ☐ Yes ☐ No

If YES, to any of these three questions, provide a description of the problem: *(Any necessary corrective actions should be described on the attached Corrective Action Form.)*

Section IV. Corrective Actions

Complete this page for each specific condition requiring a corrective action or a review determining that no corrective action is needed. Copy this page for additional corrective actions or reviews.

Include both corrective actions that have been initiated or completed since the last annual report, and future corrective actions needed to address problems identified in the comprehensive storm water inspection. Include an update on any outstanding corrective actions that had not been completed at the time of your previous annual report.

1. Corrective Action # _____ of _____ for this reporting period.

2. Is this corrective action:

☐

An update on a corrective action from a previous annual report; or

☐

A new corrective action?

3. Identify the condition(s) triggering the need for this review:

☐

Unauthorized release of discharge

☐

Numeric effluent limitation exceedance

☐

Control measures inadequate to meet applicable water quality standards

☐

Control measures inadequate to meet non-numeric effluent limitations

☐

Control measures not properly operated or maintained

☐

Change in facility operations necessitated change in control measures

☐

Average benchmark value exceedance

☐

Other (describe):

4. Briefly describe the nature of the problem identified:

5. Date problem identified:

6. How problem was identified:

☐

Comprehensive site inspection

☐

Quarterly visual assessment

☐

Routine facility inspection

☐

Notification by EPA or DEC

☐

Other (describe):

7. Description of corrective action(s) taken or to be taken to eliminate or further investigate the problem (e.g., describe modifications or repairs to control measures, analysis to be conducted, etc.) or if no modification is needed, basis for that determination.

8. Did/will this corrective action require modification of your SWPPP?

☐

Yes

☐

No

9. Date corrective action initiated:

10. Date corrective action completed:

Or expected to be completed:

11. If corrective action not yet completed, provide the status of the corrective action as the time of the comprehensive site inspections and describe any remaining steps (including timeframes associated with each step) necessary to complete the corrective action:

Section V. Annual Report Certification

Compliance Certification

Do you certify that your annual inspection has met the requirements of Part 6.3 of the permit, and that, based upon the results of this inspection, to the best of your knowledge, you are in compliance with the permit?

☐

Yes

☐

No

If NO, summarize why you are not in compliance with the permit:

Annual Report Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Authorized Representative

Title

Email

Signature

Date Signed

Appendix G
SWPPP Amendment Log

Anchorage International Airport
SWPPP Amendment Log

Instructions: Log the date and brief summary of changes for all significant SWPPP modifications. Modifications to the SWPP are necessary in the event of:

1. Any of the triggering conditions for corrective action in Part 8.1 in accordance with corrective action deadlines in Parts 8.3 and 8.4, signed & dated in accordance with Appendix A, Subsection 1.2;
2. Inspections or investigations by facility staff or by regulatory officials which determine that SWPPP modifications are necessary for compliance;
3. Any revisions to applicable regulatory officials' regulations that affect the control measures implemented at the facility;
4. The addition of new control measures, changes in facility layout or design, or storm events that cause for replacement of control measures and;
5. Annual updates.

Amendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared by & Authorized by: [Name(s) and Title]
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Appendix H

Corrective Action Report

Anchorage International Airport Corrective Action Report

Complete this page for each specific condition requiring a corrective action or a review determining that no corrective action is needed. Copy this page for additional corrective actions or reviews.

Documentation must be made within 24 hours of discovery of any of the conditions listed in Parts 8.1 or 8.2, as summarized in questions 3-5 below. Within 14 days of such discovery document the information as summarized in questions 7-11 below. If the event triggering the review is a permit violation (e.g., non-compliance with an effluent limit) it must be documented using the Noncompliance Notification form (see Section 9.3 in 2015 ADEC MSGP).

1. Corrective Action # _____ of _____ for this reporting period.

2. Is this corrective action:

- ☐ An update on a corrective action from a previous annual report; or
- ☐ A new corrective action?

3. Identify the condition(s) triggering the need for this review:

- ☐ Unauthorized release of discharge
- ☐ Numeric effluent limitation exceedance
- ☐ Control measures inadequate to meet applicable water quality standards
- ☐ Control measures inadequate to meet non-numeric effluent limitations
- ☐ Control measures not properly operated or maintained
- ☐ Change in facility operations necessitated change in control measures
- ☐ Average benchmark value exceedance
- ☐ Other (describe): _____

4. Briefly describe the nature of the problem identified:

5. Date problem identified: _____

6. How problem was identified:

- ☐ Comprehensive site inspection
- ☐ Quarterly visual assessment
- ☐ Routine facility inspection
- ☐ Notification by EPA or DEC
- ☐ Other (describe): _____

7. Description of corrective action(s) taken or to be taken to eliminate or further investigate the problem (e.g., describe modifications or repairs to control measures, analysis to be conducted, etc.) or if no modification is needed, basis for that determination.

8. Did/will this corrective action require modification of your SWPPP?

☐ Yes

☐ No

Appendix I
Employee Training Log (Annual)

Anchorage International Airport SWPPP Training Record

Date	
Trainer	

[illegible]

Appendix J
Pollutant Sources Inventory &
Significant Spills and Leaks

TABLE J-1 Materials Inventory									
Material	Location	Material Storage		Material Exposed in Last 3 Years?		Likelihood of Contact with Storm Water	Past Significant Spill or Leak?		Pollutant(s) of Concern
						Yes or No			
		Method or Type	Typical Volume and Season	Yes	No	If Yes, describe:	Yes	No	
AC 2.5 Asphalt Cement	West of warm storage building #2	55-gallon drum	2,000 pounds, summer only	✓		Yes, during application		✓	HC
Asphalt	Interior Warm Storage #2	Loose	60,000 pounds	✓		Yes, during application		✓	HC
Norline IDCS Traffic Paint	West end of field maintenance compound	342-gallon barrel	65,000 pounds, summer only	✓		Yes, during application		✓	HC
Toluene	West end of field maintenance compound	55-gallon drum	1,500 pounds, summer only	✓		Yes, should a drum be damaged		✓	Toluene
Koch Joint and Crack Sealer 270 ME	Lean-to on west end of field maintenance compound	50-pound blocks (paper wrapped)	9,600 pounds	✓		Yes, during application		✓	HC
Orange-Sol Desolv-It solvent	Maintenance shop	Parts container tank and 55 gallon tank	500 pounds	✓		No		✓	None
Chevron Delo 400 motor oil - SAE 30	Maintenance shop	55-gallon drum	1,000 pounds		✓	No		✓	HC
Chevron Delo 400 motor oil - SAE 15W-40	Maintenance shop	55-gallon drum	1,500 pounds		✓	No		✓	HC
Chevron gear lubricant SAE 80W-90	Maintenance shop	55-gallon drum	1,000 pounds		✓	No		✓	HC
Chevron Delo 400 motor oil - 10W	Maintenance shop	55-gallon drum	1,000 pounds		✓	No		✓	HC
Chevron RPM Delo motor oil 10W-30	Maintenance shop	55-gallon drum	1,500 pounds		✓	No		✓	HC
Chevron Delo 400 motor oil - SAE 40	Maintenance shop	55-gallon drum	1,000 pounds		✓	No		✓	HC
Chevron gas engine oil HDZX - SAE 30	Maintenance shop	55-gallon drum	1,000 pounds		✓	No		✓	HC
Chevron Ultra-Duty Grease I	Maintenance shop	55-gallon drum	450 pounds		✓	No		✓	HC
Chevron ATF (Dexron II)	Maintenance shop	55-gallon drum	1,500 pounds		✓	No		✓	HC
Ethylene glycol antifreeze	Maintenance shop	55-gallon drum	700 pounds		✓	No		✓	BOD; COD
Unocal tractor hydraulic fluid	Maintenance shop	55-gallon drum	1,500 pounds		✓	No		✓	HC
#1 Diesel Fuel	Maintenance yard	Aboveground storage tank	7,000 pounds		✓	No		✓	HC
#1 Diesel Fuel	Maintenance yard	Underground storage tanks (2)	90,000 pounds		✓	No		✓	HC
Unleaded gasoline	Maintenance yard	Aboveground storage tank	110,000 pounds		✓	No		✓	HC
3M light water aqueous film forming foam - 3% concentrate	Warm storage #2	55-gallon drum	2,500 pounds		✓	No		✓	BOD;COD
Cold-mix asphalt compound	Maintenance yard - west side of warm storage #2	Loose, covered with tarp	120,000 pounds, summer only	Not while stored		No, tarp covered		✓	HC

TABLE J-1 Materials Inventory									
Material	Location	Material Storage		Material Exposed in Last 3 Years?		Likelihood of Contact with Storm Water	Past Significant Spill or Leak?		Pollutant(s) of Concern
						Yes or No			
		Method or Type	Typical Volume and Season	Yes	No	If Yes, describe:	Yes	No	
ZEP 940 steam cleaner liquid	Warm storage #2	55-gallon drum	1,000 pounds		✓	No, used inside for cleaning equipment and floors		✓	silicic acid
Propane	Maintenance yard	500-gallon and 40-gallon tanks	600 gallons		✓	No, gas tank is under a roof		✓	None
Collected tenant used oil	Hazardous waste yard	55-gallon drum	200 gallons		✓	No		✓	HC
Used oil products	Hazardous waste yard	Used oil burner reservoirs and 55-gallon drums	250 gallons	✓		No		✓	HC
Acetylene (compressed)	Interior and Exterior west wall - PPO Warehouse	Compressed cylinder (3)	1,500 pounds		✓	No		✓	Acetone
Carbon Dioxide (compressed)	Interior and Exterior west wall - PPO Warehouse	Compressed cylinder (6)	300 pounds		✓	No		✓	None
Unleaded Gasoline (<4.23g lead/gal)	Exterior west wall - PPO Warehouse	5-gallon jerry cans (2)	10 gallons		✓	No		✓	None
Nitrogen (compressed)	Exterior west wall - PPO Warehouse	Compressed cylinder (12)	300 pounds		✓	No		✓	None
Oxygen (compressed)	Interior and Exterior west wall - PPO Warehouse	Compressed cylinder (8)	800 pounds		✓	No		✓	None
Argon (compressed)	Interior - PPO Warehouse	Compressed cylinder (2)	200 pounds		✓	No		✓	None
Acetylene (compressed)	South end of bldg. - ADOT Supply Warehouse	Compressed cylinders	5,000 pounds		✓	No		✓	Acetone
Oxygen (compressed)	South end of bldg. - ADOT Supply Warehouse	Compressed cylinders	4,400 pounds		✓	No		✓	None
Asphalt Pavement Surface Sealer	Exterior behind ADOT Warehouse	55-gallon drums (3)	165 gallons	✓		Yes, during application		✓	HC
#2 Diesel Fuel	Exterior Wall South end of Former Field Maintenance Facility	1,000-gallon AST	7,414 pounds	✓		No		✓	HC
Traffic Paint (Flammable)	Paint Yard	55-gallon drum (4)	1,600 pounds	✓		Yes, during application		✓	Toluene; Xylene; HC
Traffic Paint (Flammable) 350 gallon bulk containers	Paint Yard	350-gallon container	350 gallons	✓		Yes, during application		✓	Toluene; Xylene; HC
Paint, Various Colors (May contain, toluene, xylene)	Road Striping Paint Storage Yard	Various containers	4,680 pounds	✓		Yes, during application		✓	Toluene; Xylene; HC
Waste Flammable Liquid, N.O.S.	West Fence line, West End of Former Field Maintenance Equipment Compound. Hazardous Waste storage area	Various containers	450 pounds		✓	No		✓	Toluene; Xylene; HC
Waste Paint (Flammable Liquid)	West Fence line, West End of Former Field Maintenance Equipment Compound. Hazardous Waste storage area	Various containers	500 pounds		✓	No		✓	Toluene; Xylene; HC
Oxygen (compressed)	Outside SW corner (old welding shop)	Compressed cylinder (1)	100 pounds		✓	No		✓	None
Acetylene (compressed)	Outside SW corner (old welding shop)	Compressed cylinder (1)	100 pounds		✓	No		✓	Acetone
Carbon Dioxide (compressed)	Outside SW corner (old welding shop)	Compressed cylinder (1)	100 pounds		✓	No		✓	None

TABLE J-1 Materials Inventory									
Material	Location	Material Storage		Material Exposed in Last 3 Years?		Likelihood of Contact with Storm Water	Past Significant Spill or Leak?		Pollutant(s) of Concern
						Yes or No			
		Method or Type	Typical Volume and Season	Yes	No	If Yes, describe:	Yes	No	
Propylene (Size XF cylinder = 2.15cf)	Outside SW corner (old welding shop)	Compressed cylinder (1)	100 pounds		✓	No		✓	
Carbon Dioxide/ Argon Mixture (compressed)	Outside SW corner (old welding shop)	Compressed cylinder (1)	100 pounds		✓	No		✓	None
Propane (~42" x 93" cylinder)	Outside North end of North Storage Building.	Compressed cylinder (1)	1,300 pounds		✓	No		✓	None
Antifreeze	Antifreeze Dispenser (70 gallon tanks on stand)	70-gallon tank (3)	210 gallons		✓	No		✓	BOD; COD
Motor Oil	Lube / Hyd. oil Dispenser (70 gallon tanks on stand)	70-gallon tank (2)	140 gallons		✓	No		✓	HC
Gasoline	Outside North end of North Storage Building (old fuel tanks)	6,000-gallon AST	3,600 gallons		✓	No		✓	HC
#2 Diesel Fuel	Outside North end of North Storage Building (old fuel tanks)	6,000-gallon ASTs (2)	9,097 gallons		✓	No		✓	HC
Antifreeze	Antifreeze Dispenser (3 x 70 gallon tanks on stand)	70-gallon tank (3)	210 gallons		✓	No		✓	BOD; COD
Motor Oil	Lube / Hyd. oil Dispenser (2 x 70 gallon tanks on stand)	70-gallon tank (2)	140 gallons		✓	No		✓	HC
#2 Diesel Fuel	Exterior Gate N3 (1000-gallon UST, Double Wall, Emergency Generator Tank)	1,000-gallon UST	1,000 gallons		✓	No		✓	HC
#2 Diesel Fuel	Exterior Gate N3 (75-gallon Genset Day Tank)	75-gallon Genset Day Tank	75 gallons		✓	No		✓	HC
R22 Refrigerant (compressed)	Room ND137	Compressed cylinder (3)	450 pounds		✓	No		✓	None
R22 Refrigerant (compressed)	Room NB314 - Fan Room 2	Compressed cylinder (5)	300 pounds		✓	No		✓	None
Oxygen (compressed)	Room NB314 - Fan Room 1	Compressed cylinder (1)	100 pounds		✓	No		✓	None
Acetylene (compressed)	Room NB314 - Fan Room 1	Compressed cylinder (1)	100 pounds		✓	No		✓	Acetone
R22 Refrigerant (compressed)	Room NB314 - Fan Room 1	Compressed cylinder (5)	300 pounds		✓	No		✓	None
Hydraulic Fluid	Room ND157	55-gallon drum (2)	45 gallons		✓	No		✓	
Used Oil	Room ND157	55-gallon drum (1)	35 gallons		✓	No		✓	HC
#2 Diesel Fuel	Rm C1569B, 500-gallon AST, back up for boilers	500-gallon AST	500 gallons		✓	No		✓	HC
#2 Diesel Fuel	Outside Gate B4 - Emergency Generator UST, 1500gal.	1,500-gallon UST	1,500 gallons		✓	No		✓	HC
#2 Diesel Fuel	Room M13 (2ea. 75gal Genset Day Tank)	75-gallon Genset Day Tank (2)	150 gallons		✓	No		✓	HC
Ethylene glycol antifreeze	Room M22	55-gallon drum (2)	110 gallons		✓	No		✓	BOD; COD
R-134a (compressed)	Room M22	Compressed cylinder (8)	720 pounds		✓	No		✓	None
Acetylene (compressed)	Heavy Duty Shop	Compressed cylinder (1)	130 pounds		✓	No		✓	Acetone
Oxygen (compressed)	Heavy Duty Shop	Compressed cylinder (1)	220 pounds		✓	No		✓	None
Transmission Oil	Room AM1281 - Light Duty Shop	55-gallon drum (1)	400 pounds		✓	No		✓	HC
Motor Oil	Room AM1281 - Light Duty Shop	55-gallon drum (1)	400 pounds		✓	No		✓	HC
Antifreeze (propylene glycol)	Room AM1281 - Light Duty Shop	55-gallon drum (3)	1,385 pounds		✓	No		✓	BOD; COD
Acetylene (compressed)	Room AM1429 - Welding Shop	Compressed cylinder (3)	450 pounds		✓	No		✓	Acetone

TABLE J-1 Materials Inventory									
Material	Location	Material Storage		Material Exposed in Last 3 Years?		Likelihood of Contact with Storm Water	Past Significant Spill or Leak?		Pollutant(s) of Concern
						Yes or No			
		Method or Type	Typical Volume and Season	Yes	No	If Yes, describe:	Yes	No	
Argon (compressed)	Room AM1429 - Welding Shop	Compressed cylinder (2)	300 pounds		✓	No		✓	None
Carbon Dioxide/ Argon Mixture (compressed)	Room AM1429 - Welding Shop	Compressed cylinder (8)	1,200 pounds		✓	No		✓	None
Oxygen (compressed)	Room AM1429 - Welding Shop	Compressed cylinder (12)	1,800 pounds		✓	No		✓	None
MAPP gas (Liquefied Petroleum Gas w/ Methylacetylene)	Room AM1429 - Welding Shop	Compressed cylinder (1)	150 pounds		✓	No		✓	HC
Propylene (compressed)	Room AM1429 - Welding Shop	Compressed cylinder (1)	150 pounds		✓	No		✓	HC
#2 Diesel Fuel	Room AM1467 - Boiler Room (500 gallon AST inside building)	500-gallon AST	500 gallons		✓	No		✓	HC
60/40 Ethylene Glycol/Water (Emerald Extended Service)	Room AM1722 - Lube Storage (300 gallon AST inside building)	300-gallon ASTs (4)	1,200 gallons		✓	No		✓	BOD; COD
Transmission Oil	Room AM1722 - Lube Storage (300 gallon AST inside building)	300-gallon AST	300 gallons		✓	No		✓	HC
Antifreeze (70gal tanks on dispenser stand)	Warm storage	70-gallon tank (3)	210 gallons		✓	No		✓	BOD; COD
Motor Oil	Warm storage	70-gallon tank (2)	140 gallons		✓	No		✓	HC
Sand	Interior Warm Storage	Loose, covered		✓		Yes, during application		✓	TSS
Potassium Acetate	Exterior tanks	50,000-gallon AST (2)	100,000 gallons	✓		Yes, during application		✓	BOD; COD
#2 Diesel Fuel	Exterior tanks	15,000-gallon UST (2)	30,000 gallons		✓	No		✓	HC
Unleaded Gasoline (<4.23g Lead/Gal)	Exterior tanks	8,092-gallon UST	6,825 gallons		✓	No		✓	HC
#2 Diesel Fuel	Electric vault	1,000-gallon AST	500 gallons		✓	No		✓	HC
#2 Diesel Fuel	Electric vault	25-gallon Genset Day Tank	25 gallons		✓	No		✓	HC
#2 Diesel Fuel	Exterior vehicle fueling	1,500-gallon AST	1,000 gallons		✓	No		✓	HC
#2 Diesel Fuel	ARFF Building	2,500-gallon UST	2,000 gallons		✓	No		✓	HC
#2 Diesel Fuel	ARFF Building	75-gallon Genset Day Tank	75 gallons		✓	No		✓	HC
#2 Diesel Fuel	Lighting vault	150-gallon Genset Day Tank	150 gallons		✓	No		✓	HC
#2 Diesel Fuel	Lighting vault	6,000-gallon AST	6,000 gallons		✓	No		✓	HC
Class C explosive: ammunition/fireworks	First floor	Locker			✓	No		✓	
Oxygen	First Aid Room, 2nd floor	Cylinder			✓	No		✓	None
Oxygen	First Aid Locker, 1st floor	Cylinder			✓	No		✓	None
Diesel	Flammable locker, 1st floor	Can	1 gallon		✓	No		✓	HC
Light water Aqueous film forming foam- 3%	Mezzanine floor	Tank	1,000 gallons	✓		Yes - for intended purposes		✓	BOD; COD
No materials stored at this facility									None
No materials stored at this facility									None

TABLE J-1 Materials Inventory									
Material	Location	Material Storage		Material Exposed in Last 3 Years?		Likelihood of Contact with Storm Water	Past Significant Spill or Leak?		Pollutant(s) of Concern
						Yes or No			
		Method or Type	Typical Volume and Season	Yes	No	If Yes, describe:	Yes	No	
Clean Soil Storage Site	North of taxiways J/K	Loose	Varies depending upon construction project	✓		Yes, from infiltration and sheet flow		✓	TSS
Soil Spreading Area	Between runway 6R and taxiway K	Loose	In use	✓		Yes, from infiltration and sheet flow		✓	HC;TSS
Dumpsters (trash)	At maintenance facility and adjacent to Lake Hood on Lakeshore Drive and Aircraft Drive	Dumpster	Varies	✓		Yes, during transfer of trash		✓	Floating solids, TSS; BOD; COD
“Biffy” dump	North side of International Terminal	Contained liquid	Varies		✓	No		✓	BOD; Fecal coliform
Snow Disposal Sites	See Figure F-7	Loose	Varies	✓		Yes		✓	BOD;TSS
BOD = Biochemical oxygen demand COD = Chemical oxygen demand HC = Hydrocarbon TSS = Total suspended solids									

TABLE J-2 Significant Spills & Leaks 2008-2014								
Date	Responsible Party	Aircraft/ Equipment	Material	Amount (gallons)	Location	Cause	Action/Comment	Environmental Concerns
12/9/2008	unknown	unknown	glycol	0.5	Tug Road near gate N-10	glycol container found along tug road	Airfield Maintenance personnel cleaned up spilled material. Airport Safety report 08-1430	
11/23/2008	ANC Airfield Maintenance, Robert Johnson	Runway broom	hydraulic fluid	3	Runway 7R N side of taxiway Echo, outside lights.	hydraulic line on runway broom blew	Field maintenance personnel cleaned up hydraulic oil using absorbent pads. Pads & snow scraped up were put into accumulation drum in RCRA yard and will be disposed as used oil. PRP: Robert Johnson	
8/18/2008	ANC Airfield Maintenance	Big mower (tractor)	Hydraulic Fluid	30	Between old tug road and DeHavilland Dr. across from AFM building	Seal failed on input shaft	Airfield maintenance used sorbent booms and pads to prevent spill from spreading. Report submitted to ADEC 8/20/08	
4/12/2008	Airfield Maintenance	Dump truck 7	Motor oil	6	Hardstand behind Romeo 8 & 9	Oil pan cracked/ ruptured from debris kicked up releasing engine oil	~3 gallons of oil was recovered in drip pan whilst it was dripping, ~3 gallons of oil that was released onto concrete was cleaned up using absorbent pads and floor dry. Oil pan rupture in FM dump truck during snow removal adjacent R8. Advised Swissport to closed R8/9. Spill was approximately three gallons and was cleaned up by maintenance personnel. Vehicle was towed to heavy equipment shop.	None - all material contained on pavement
4/12/2008	Airfield Maintenance	Snow blast	Hydraulic Fluid	4	Taxiway Lima	Hydraulic line ruptured	Airfield Maintenance personnel contained and cleaned up spill using absorbent pads	None
2009								
4/6/2009	Airfield Maintenance	Runway broom	Hydraulic Fluid	20.0	Equipment shop	Hydraulic line leak	Spill contained with absorbent boom and pads. Contaminated snow and ice shoveled into drums. Absorbent booms were placed around circumfreence of spill and pad were place inside booms to absorb hydraulic fluid entrained in snow/ice that is melting.	ASIG cleaned up spill using pads. No environmental concerns noted on report.
4/24/2009	Airport Environmental	Storm water	Jet fuel / glycol	10	Victor spill station (A)	Storm water (meltwater) runoff	Fuel appeared at Victor spill station during late April during spring breakup. Approximately 10 gallons was recovered at Victor spill station with absorbent booms and pads. Spill report submitted to ADEC 4-24-09.	None observed by ANC Environmental
11/14/2009	Airfield Maintenance	Runway broom	Hydraulic Fluid	10.0	Equipment shop	Operator of runway broom struck bollard protecting NW corner of heavy equipment shop building and punctured diesel fuel tank on tow behind runway broom.	Fuel leaking from tank was captured using buckets. Spill onto pavement was cleaned up using absorbent boom and pads followed with floor dry. Light oil staining visible on pavement.	Spilled fluids cleaned up by Airfield Maint. Fry's Services took care of waste disposal. Fry's Services billed for ANC time & materials

TABLE J-2 Significant Spills & Leaks 2008-2014								
Date	Responsible Party	Aircraft / Equipment	Material	Amount (gallons)	Location	Cause	Action/Comment	Environmental Concerns
2010								
3/10/2010	Airfield Maintenance Brendon Knox	Runway broom	Hydraulic Fluid	2.0	Equipment shop	Hydraulic line ruptured	Spill onto snow covered paved area. Oiled snow was shoveled into buckets, taken inside to melt and managed as used oil. Pads placed over affected area, subsequent warm weather melted snow to pavement and floor dry was used to remove residual oil after removing pads.	
3/14/2010	Airfield Maintenance Douglas Smith	Snow groomer	Hydraulic Fluid	1.0	Ramp by OAS hangar	Hydraulic line leak	Spill occurred at night and oiled snow was not discovered until daylight. Office of Aircraft Services (BLM) personnel shoveled red oily snow into buckets. Airfield Maintenance revisited area and shoveled up all remaining stained snow. Snow taken inside to melt and managed as used oil. No evidence of spill when area was inspected on 3/17.	Cleaned up by ASIG
3/17/2010	Unknown		Unknown	1	F-2	Unknown	Potentially GSE equipment parked near hydrant pit	Sorbent pads
3/17/2010	Unknown		Unknown	1	F-2	Unknown	Potentially GSE equipment parked near hydrant pit	None spill contained by snowpack. Snow removed.
3/31/2010	Airport Environmental	Storm water	Jet fuel / other oils	10.0	Victor Spill Station	Storm water (meltwater) runoff	Fuel & oil recovered using absorbent booms and pads during March 2010. Quantity is estimated due as pads and booms also absorb glycol based deicing fluids. Difficult to tie these releases to specific responsible parties.	Sorbent pads
5/9/2010	ANC	N/A	Soil excavated from firing range			Soil excavated from firing range	Potential lead contamination	Unknown at this time, soil is in covered stockpiles
6/7/2010	Unknown (Airport Environmental)	Unknown	Hydraulic fluid	10.0	Kilo Parking Position (K3)	Soil stained with hydraulic oil discovered during routine inspection of airfield.	~5 c.y. of contaminated soil removed by Airfield Maintenance and placed in landspreading area. Waiting for contractor (MACTEC Engineering) to conduct sampling of excavated area. (Appears that hydraulic line on a piece of equipment sprayed oil over an area ~20'x30'. Ground Service providers who had equipment in area all denied responsibility.)	Spill was onto graveled area next to pavement. No known watershed impacts.
8/13/2010	Airfield Maintenance, Mark Pinnick	Runway broom #15	Hydraulic fluid	3.0	4100 Aircraft Drive	Leaking hydraulic line (partial failure)	Absorbent pads were used to contain and soak up hydraulic fluid leaking from a broken hose on a runway broom in old Airfield maintenance yard. No rain at time of occurrence. Spill reported immediately to Environmental by Eric Seibels, Maintenance Foreman.	None - spill onto pavement
9/20/2010	Airfield Maintenance, Mike Bywater	Fuel truck	Diesel Fuel	75.0	QTF 5740 Dehaviland Dr.	Hose clamp on pump failed, hose detached and fuel was released while operator was trying to shut down pump. He was drenched in diesel.	Airfield Maintenance used sorbent booms, pads and granular absorbent to cleanup spill on pavement. Used Vactor truck to remove ~40 gallons diesel from sump of nearby storm drain catch basin. Spill reported to ADEC immediately as fuel had entered storm drains. Airport Safety report 10-935	Fuel entered storm drain. Did not find fuel in downstream manholes of piping but placed boom in a couple to be safe.

TABLE J-2 Significant Spills & Leaks 2008-2014								
Date	Responsible Party	Aircraft / Equipment	Material	Amount (gallons)	Location	Cause	Action/Comment	Environmental Concerns
12/12/2010	Airfield Maintenance Brendon Knox	Runway broom	Hydraulic Fluid	3.0	Taxiway Yankee & Sierra	Fitting on hydraulic line failed	Spill onto snow covered paved area. Oiled snow was shoveled into buckets, taken inside to melt and managed as used oil. Pads placed over affected area, subsequent warm weather melted snow to pavement and floor dry was used to remove residual oil after removing pads.	None - Spill contained in snow and ice on top of pavement.

2011								
1/26/2011	Airfield Maintenance, Jeremy Hans	Plow Truck 8	Hydraulic Fluid	15.0	Entrance to Alaska CargoPort	Hydraulic line failed	Spill onto snow covered paved area. Oiled snow was shoveled into plastic bags. Absorbent Pads also used to remove residual hydraulic oil.	None - Spill contained in snow and ice on top of pavement.
2/23/2011	Unknown (Airport Environmental)	N/A	Petroleum contamination found in Alpha snowdump	20-40 c.y. of snow	Alpha snowdump	Unknown	Reported spill to ADEC who allowed us to take contaminated snow segregated from rest of pile and place into fire training pit.	None noted. Area will be re-evaluated after breakup
12/3/2011	Unknown (Airport Environmental)	Unknown	Diesel	20 - 35	East end of Taxiway Tango between FedEx & UPS	Unknown	Fuel discovered in stockpiled snow. Airport Safety report 11-939 states volume at 100-200 gallons. Actual about no where near that amount. ANC Environmental reported spill to ADEC.	No fuel appears to have entered storm drain nearest the snowpile due to frozen conditions.
2012								
1/22/2012	ANC Airfield Maintenance, Brendon Knox	Runway broom	Hydraulic fluid	3	East end of warm storage (inside building w/oil separator)	Hydraulic line on runway broom failed	Field maintenance personnel cleaned up hydraulic oil using absorbent pads. Pads were put into an accumulation drum in RCRA yard and will be disposed of through Entech.	None - Spill contained on top of pavement inside building
2013								
4/4/2013	ANC Airfield Maintenance, Teddy Burns	Excavator #38429	Hydraulic fluid	2	Inside AFM shop bay F-04	Pressurized system released fluids when opened to check fluid level	Spill contained on concrete floor, not reportable to ADEC	Sorbent pads used
10/23/2013	Unknown (Airport Environmental)	Unknown aircraft	Hydraulic fluid	10	Runway 33	Operations personnel noticed oil at K-R T/W intersection and tracked oil trail down runway 33. Tower and Operations unable to determine which aircraft leaked hydraulic fluid.	Spill wasn't concentrated in any one area. It appeared to have sprayed out of an unknown aircraft. Airfield maintenance spread sand over oil along runway and used curb and gutter broom to remove sand. Sand placed into contaminated soil storage area.	None - Spill contained on top of pavement

TABLE J-2 Significant Spills & Leaks 2008-2014								
Date	Responsible Party	Aircraft / Equipment	Material	Amount (gallons)	Location	Cause	Action/Comment	Environmental Concerns
12/30/2013	Unknown	Escalator A concourse	Metallic mercury	< 1 gram	Top of A concourse down escalator	Unknown	Called by OTIS elevator guy who noticed several drops of mercury during routine escalator inspection.	Spill was cleaned up using a syringe to suck up 5-6 droplets of metallic mercury. Then used mercury clean up kit to complete cleanup of metal plate at top of down escalator.
2014								
4/4/2014	Airfield Maintenance, Tom Rogers	Broom #23 (37936)	Hydraulic Fluid (76 Super ATF)	30	N-3	Hydraulic hose failure	Airfield Maintenance cleaned up spill using absorbent pads. Report says used Hotsy to clean asphalt, then curb and gutter broom to recover liquid. Curb and gutter broom emptied into wash bay with oil/water separator.	Area where spill occurred is entirely on pavement (100 sq. ft.). Inspected 4-8-14 and looks okay. TSJ

Appendix K
Benchmark Sampling Data Summarization
2009-2015

Table K-1 Sample Data Summarization 2009-2015																					
Benchmark Sampling Parameters	Sector Specific Benchmark Monitoring Concentrations ^a	Sample Year 2009-2010					Sample Year 2010-2011					Sample Year 2011-2012					Sample Year 2012-2013				
		July-September 2009 Sampling (9/22/09)					July - September 2010 Sampling (9/30/10)					July - September 2011 Sampling (7/20/11)					July - September 2012 Sampling (8/28/12)				
		Outfall					Outfall					Outfall					OutFall				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
BOD5	30 mg/L	55.0	11.3	71.4	1260.0	12.1	7.0	0.0		350.0	0.0	4.6	0.0	0.0	47.9	3.3	0.0	0.0	0.0	190.0	0.0
COD	120 mg/L	94.0	30.0	60.0	1600.0	37.0	42.0	29.0		740.0	44.0	26.8	20.5	23.8	184.0	30.9	26.0	17.0	19.0	350.0	28.0
Ammonia	2.14 mg/L	23.0	1.0	17.0	16.0	40.0	41.0	7.0		16.0	2.6	25.6	15.0	15.6	14.4	3.1	21.0	7.9	12.0	7.5	1.7
pH	6.0 - 9.0 s.u.	6.7	6.6	7.0	6.4	6.8	7.0	6.5		6.1	6.7	7.3	7.1	7.9	7.1	6.2	7.5	6.6	7.9	6.8	6.1
							Outfall C not sampled (no flow)														
		October - December 2009 Sampling (10/28/09)					October - December 2010 Sampling (10/11/10)					October - December 2011 Sampling (10/18/11)					October - December 2012 Sampling (10/18/12)				
		Outfall					Outfall					Outfall					Outfall				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
BOD5	30 mg/L	16.9	12.0	11.4	1990.0	27.6	72.0	5.3	4.0	1200.0	0.0	10.2	3.7	0.0	49.4	0.0	28.0	7.6	7.8	240.0	11.0
COD	120 mg/L	34.0	26.0	36.0	1600.0	44.0	130.0	40.0	43.0	1800.0	40.0	34.9	21.5	20.5	140.0	31.1	72.0	13.0	15.0	300.0	32.0
Ammonia	2.14 mg/L	7.1	0.6	3.1	5.9	2.8	18.0	4.4	6.9	4.2	0.28	42.3	6.2	18.4	14.4	1.60	15.0	7.4	7.5	13.0	83.00
pH	6.0 - 9.0 s.u.	5.9	6.5	6.7	6.9	6.8	7.0	6.9	6.7	7.2	7.6	6.8	7.3	7.4	6.8	6.3	6.8	6.2	6.7	6.6	7.4
							January - March 2011 Sampling (3/22/11 & 3/31/11)					January - March 2012 Sampling					January - March 2013 Sampling				
		January - March 2010 Sampling (2/22/10)					April - June 2012 Sampling (4/10/12 & 4/25/12)					April - June 2013 Sampling (4/23/13)									
		Outfall					Outfall					Outfall					Outfall				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
BOD5	30 mg/L				5330.0		639.0	320.0		65.8	368.0	93.2	37.2	0.0	229.0	93.1	540.0	310.0	2100.0	5300.0	160.0
COD	120 mg/L				27400.0		1100.0	660.0		13000.0	800.0	885.0	166.0	14.6	14000.0	482.0	820.0	440.0	1900.0	6000.0	190.0
Ammonia	2.14 mg/L				571.0		190.0	30.0		220.0	210.0	194.0	13.0	1.4	262.0	209.0	56.0	33.0	44.0	35.0	56.0
pH	6.0 - 9.0 s.u.				7.4		9.7	8.4		9.2	9.4	9.0	6.5	6.9	8.6	8.8	7.5	7.9	7.9	8.0	7.7
		Outfalls A,B,C & E were not sampled (no flow)					Outfall C not sampled (no flow)					Frozen conditions until April 10th - no sample taken as per MSGP 6.1.6					Frozen conditions until April 23rd - no sample taken as per MSGP 6.1.6				
		April - June 2010 Sampling (4/29/10)					April - June 2011 Sampling (6/16/11)					April - June 2012 Sampling (6/7/12)					April - June 2013 Sampling (5/17/13)				
		Outfall					Outfall					Outfall					Outfall				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
BOD5	30 mg/L	49.8	157.0	152.0	2390.0	20.1	20.1	2.2	10.6	46.5	6.7	48.0	0.0	0.0	590.0	0.0	35.0	110.0	57.0	120.0	8.1
COD	120 mg/L	130.0	410.0	300.0	2100.0	0.0	90.5	0.0	32.9	110.0	57.2	160.0	21.0	15.0	890.0	44.0	63.0	190.0	120.0	230.0	74.0
Ammonia	2.14 mg/L	25.7	19.0	27.2	81.8	20.3	73.5	26.9	70.3	87.4	73.5	27.0	16.0	16.0	14.0	22.0	24.0	26.0	4.8	7.0	31.0
pH	6.0 - 9.0 s.u.	7.3	7.0	7.1	7.3	6.7	7.3	7.2	7.0		6.7	6.45	7.06	7.48	5.86	7.24	5.4	5.7	6.3	6.6	4.0
^a Red font indicates an exceedance of sector specific benchmark monitoring concentrations																					

Table K-1 Sample Data Summarization 2009-2015											
Benchmark Sampling Parameters	Sector Specific Benchmark Monitoring Concentrations ^a	Sample Year 2013-2014					Sample Year 2014-2015				
		July - September 2013 Sampling (8/13/13 & 9/19/13)					July - September 2014 Sampling (8/5/14)				
		Outfall					Outfall				
		A	B	C	D	E	A	B	C	D	E
BOD5	30 mg/L	0.0	0.0	26.3	270.0	0.0	0.0	0.0	0.0	47	6.7
COD	120 mg/L	33.0	45.0	54.0	440.0	24.0	150	32	34	140	53
Ammonia	2.14 mg/L	20.0	15.0	6.9	15.0	8.7	11	9.8	9.1	2.8	10
pH	6.0 – 9.0 s.u.	7	6	7	6	6	8	8	8	7	7
		Samples were re-taken at C Outfall during this quarter because diversion gate to Lake Hood had been opened due to a construction project.									
		October - December 2013 Sampling (10/14/13)					October - December 2014 (10/14/14)				
		Outfall					Outfall				
		A	B	C	D	E	A	B	C	D	E
BOD5	30 mg/L	0.0	0.0	14.0	64.0	0.0	0.0	0.0	0.0	47	0.0
COD	120 mg/L	29.0	69.0	60.0	140.0	24.0	24	12	22	130	43
Ammonia	2.14 mg/L	12.0	0.6	2.4	4.4	0.97	7.4	.4	3.7	4.4	0.0
pH	6.0 – 9.0 s.u.	6	6	6	6	6	6	7	7	7	7
		January - March 2014 Sampling (1/28/14)					January - March 2015 (2/24/15)				
		Outfall					Outfall				
		A	B	C	D	E	A	B	C	D	E
BOD5	30 mg/L	770	130	32	4300	190	23	250	26	890	300
COD	120 mg/L	6100	220	81	7800	280	84	450	96	1500	420
Ammonia	2.14 mg/L	1.9	1.4	8.5	2.9	0.05	0.0	1.7	0.0	.31	0.0
pH	6.0 - 9.0 s.u.	6	6	7	7	7	6	6	6	7	6
		April - June 2014 Sampling (5/7/14)									
		Outfall									
		A	B	C	D	E					
BOD5	30 mg/L	0.0	38.0	58.0	500.0	8.6					
COD	120 mg/L	45.0	100.0	110.0	660.0	320.0					
Ammonia	2.14 mg/L	16.0	15.0	14.0	5.5	9.8					
pH	6.0 - 9.0 s.u.	7	6	7	6	7					
^a Red font indicates an exceedance of sector specific benchmark monitoring concentrations											

Appendix L
NOI & ADEC Acknowledgement Letter

Permit #: _____



Notice of Intent (NOI) For Storm Water Discharges Associated With Industrial Activity Under the APDES Multi-Sector General Permit

Submission of this completed Notice of Intent (NOI) constitutes notice that the operator identified in Section I of this form requests authorization to discharge pollutants to waters of the United States from the facility or site identified in Section III under Alaska's APDES Multi-Sector General Permit (MSGP) for industrial storm water. Submission of this NOI constitutes your notice to DEC that the facility identified in Section III of this form meets the eligibility conditions of Part 1.1 of the MSGP. Please read and make sure you comply with all eligibility requirements, including the requirement to prepare a storm water pollution prevention plan. Refer to the instructions at the end of this form to complete your NOI.

Section I. Operator Information

Organization:

Contact Person:

State of Alaska, Department of Transportation and  Tracy Mitchell

Mailing Address:

Street (PO Box):

Ted Stevens Anchorage International Airport, POB 196960

City:

Anchorage

State:

AK

Zip:

99519-6960

Phone:

907-266-2467

Fax (optional):

Email:

tracy.mitchell@alaska.gov

Section II. Billing Contact Information

Organization:

Contact Person:

Mailing Address:

Street (PO Box):

☒ Check here if same as Operator Information

City:

State:

Zip:

Phone:

Fax (optional):

Email:

Section III. Facility Information

Facility Name: Ted Stevens Anchorage International Airport

Have storm water discharges from your site been covered previously under an APDES or NPDES Permit? ☒ Yes ☐ No

a. If Yes, provide the Tracking Number if you have coverage under MSGP 2008 or the APDES permit number if you had coverage under a DEC individual permit. **AKR05CC00**

b. If No, was your facility in operation and discharging storm water prior to September 29, 2013? ☐ Yes ☐ No

c. If No to "b", did your facility commence discharging after September 29, 2013 and before the effective date of this permit ☐ Yes ☐ No

Location Address:

Street:

5000 W. International Airport Road

Borough or similar government subdivision

State of Alaska

City:

Anchorage

State:

AK

Zip:

99502

Latitude:

61.10'27"N

Longitude:

149.58'54"W

Determined By:

☐ GPS☐ USGS Topographic Map☒ Other

If you used a USGS Topographic map, what was the scale?

Google Maps

Estimated area of industrial activity at your site exposed to storm water: **728** (acres)Is this a federal facility? ☐ Yes ☒ No

Permit #:

Section IV. Discharge InformationDoes your facility discharge into a Municipal Separate Storm Sewer System (MS4)? ☐ Yes ☒ No

If yes, name of the MS4 Operator:

Receiving Water and Wetlands Information: (if additional space is needed for this question, fill out Attachment 1.)

a. What is the name(s) of your receiving water(s) that receive storm water directly and/or through a MS4?

If your receiving water is impaired, then identify the name of the impaired segment, if applicable, in parenthesis following the receiving water name.

b. Are any of your discharges directly into any segment of an "impaired" water?

Yes No

c. If you answered yes to question b, then answer the following three questions:

i. What pollutant(s) are causing the impairment?

ii. Are the pollutant(s) causing the impairment present in your discharge?

Yes No

iii. Has the TMDL been completed for the pollutant(s) causing the impairment?

Yes No

Turnagain Arm

☐ ☒

Knik Arm

☐ ☒

Lake Hood (Dissolved Oxygen)

☒ ☐

Deicing products

☐ ☐☐ ☒

Lake Spenard (Dissolved Oxygen)

☒ ☐

Deicing products

☐ ☐☐ ☒☐ ☐☐ ☐☐ ☐**Federal Effluent Limitation Guidelines and Sector-Specific Requirements**a. Are you requesting permit coverage for any storm water discharges subject to effluent limitation guidelines? ☐ Yes ☒ No

b. If yes, which effluent limitation guidelines apply to your storm water discharge?

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	Check if applicable
Part 411, Subpart C	Runoff from material storage piles at cement manufacturing facilities.	E	<input type="checkbox"/>
Part 418, Subpart A	Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished products, by-products, or waste products (SIC 2874).	C	<input type="checkbox"/>
Part 423	Coal pile runoff at steam electric generating facilities.	O	<input type="checkbox"/>
Part 429, Subpart I	Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas.	A	<input type="checkbox"/>
Part 436, Subpart B, C, or D	Mine dewatering discharges at crushed stone mines, construction sand and gravel mines, or industrial sand mines.	J	<input type="checkbox"/>
Part 443, Subpart A	Runoff from asphalt emulsion facilities.	D	<input type="checkbox"/>
Part 445, Subparts A & B	Runoff from hazardous waste and non-hazardous waste landfills.	K, L	<input type="checkbox"/>
Part 449, Subpart A	Runoff from Air Transportation	S	<input type="checkbox"/>

If you are a Sector S (Air Transportation) facility, do you anticipate using more than 100,000 gallons of glycol-based deicing/anti-icing chemicals and/or 100 tons or more of urea on an average annual basis? ☐ Yes ☒ No

Identify the 4-digit Standard Industrial Classification (SIC) code or 2-letter Activity Code that best represents the products produced or services rendered for which your facility is primarily engaged, as defined in MSGP:

Primary SIC Code: 4512 or
Primary Activity Code:

Identify the applicable sector(s) and subsector(s) of industrial activity, including co-located industrial activity, for which you are requesting permit coverage:

Sector	Subsector
S	

Sector	Subsector

Sector	Subsector

Is your site presently inactive or unstaffed? ☐ Yes ☒ Noa. If Yes, is your site expected to be inactive and unstaffed for the entire permit term? ☐ Yes ☐ No

b. If No to "a", then indicate the length of time that you expect your facility to be inactive and unstaffed.

Section V. Storm Water Pollution Prevention Plan (SWPPP) Contact Information

SWPPP Contact Name:

Tracy Mitchell

Phone:

907-266-2467

Email:

tracy.mitchell@alaska.gov

URL of SWPPP (if applicable): Link located at: <http://www.dot.state.ak.us/anc/business/environmental/wa>

Permit #: _____

Section VI. Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John Parrott

Printed Name

Airport Manager

Title

Signature

Date

State of Alaska, Department of Transportation

john.parrott@alaska.gov

Organization

Email

Section VII. NOI Preparer (Complete if NOI was prepared by someone other than the certifier.)

Tracy Mitchell

Printed Name

Environmental Specialist III

Title

State of Alaska, Department of Transportation

907-266-2467

Organization

Phone

tracy.mitchell@alaska.gov

Email

Section VIII. Document Attachments

Documents attached with this application:

ANC SWPPP 2015

Instructions for Completing the Notice of Intent for Storm water Discharges Associated with INDUSTRIAL ACTIVITY under the Multi-Sector General Permit (MSGP)

Table 2-1: NOI Submittal Deadlines/Discharge Authorization Dates

Category	NOI Submission Deadline	Discharge Authorization Date ¹
<u>Existing Dischargers</u> – in operation as of September 29, 2013 and authorized for coverage under MSGP 2008.	Existing Dischargers must submit new NOI and SWPPP no later than one hundred twenty (120) calendar days after the effective date of this permit.	Seven (7) calendar days after DEC posts the NOI. The permittees authorization under the MSGP 2008 is automatically continued until they have been granted coverage under this permit or an alternative permit, or coverage is otherwise terminated.
<u>New Dischargers or New Sources</u> - who commence discharging between September 29, 2013 and one hundred twenty (120) days after the effective date of this permit.	As soon as possible but no later than one hundred twenty (120) calendar days after the effective date of this permit.	Seven (7) calendar days after DEC posts the NOI.
<u>New Dischargers or New Sources</u> - who commence discharging one hundred twenty (120) calendar days after the effective date of this permit.	A minimum of thirty (30) calendar days prior to commencing discharge.	Seven (7) calendar days after DEC posts the NOI.
<u>New Owner/Operator of Existing Discharger</u> - transfer of ownership and/or operation of a facility whose discharge is authorized under this permit	New Owner shall submit a new NOI no later than thirty (30) calendar days after the date that the transfer will take place to the new owner/operator.	Seven (7) calendar days after DEC posts the NOI.
<u>Other Eligible Dischargers</u> - in operation prior to September 29, 2013, but not covered under the MSGP 2008 or another APDES permit.	Immediately, to minimize the time discharges from the facility will continue to be unauthorized.	Seven (7) calendar days after DEC posts the NOI.
Note: 1. Based on a review of the permittees NOI or other information, DEC may delay their authorization for further review, notify the permittee that additional effluent limitations or control measures are necessary, or may deny coverage under this permit and require submission of an application for an individual APDES permit, as detailed in Part 2.8. In these instances, DEC will notify the permittee in writing of the delay, of the need for additional effluent limits or control measures, or of the request for submission of an individual APDES permit application. 2. If the permittee has missed the deadline to submit the NOI, any and all discharges from the industrial activities will continue to be unauthorized under the CWA until they are covered by this or a different APDES permit. DEC may take enforcement action for any unpermitted discharges that occur between the commencement of discharging and discharge authorization.		

Who Must File a Notice of Intent with DEC?

Under section 402(p) of the Clean Water Act (CWA) and regulations at 40 CFR Part 122.26, adopted by reference at 18 AAC 83.010 (3) storm water discharges associated with industrial activity are prohibited to waters of the United States unless authorized under an Alaska Pollutant Discharge Elimination System (APDES) permit. You can obtain coverage

under the MSGP by submitting a completed NOI if you operate a facility that:

- is located in a jurisdiction where DEC is the permitting authority, listed in Part 1.1 of the MSGP;
- discharges storm water associated with industrial activities, identified in Appendix D of the MSGP;
- meets the eligibility requirements in Part 1.2 of the permit;
- develops a storm water pollution prevention plan (SWPPP) in accordance with Part 5 of the MSGP; and
- installs and implements control measures in accordance with Part 4 to meet numeric and non-numeric effluent limits.

If you are unsure if you need an APDES storm water permit, contact your APDES storm water permit program. Contacts are listed at:

<http://dec.alaska.gov/water/wnpspc/stormwater/index.htm>

One NOI must be submitted for each facility or site for which you are seeking permit coverage. You do not need to submit separate NOIs for each type of industrial activity present at your facility, provided your SWPPP covers all activities.

When to File the NOI Form

Do not file your NOI until you have obtained and thoroughly read a copy of the MSGP. A copy of the MSGP is located on the DEC website (<http://dec.alaska.gov/water/wnpspc/stormwater/MultiSector.htm>). The MSGP describes procedures to ensure your eligibility, prepare your SWPPP, install and implement appropriate storm water control measures, and complete the NOI form questions – all of which must be done before you sign the NOI certification statement attesting to the accuracy and completeness of your NOI. You will also need a copy of the MSGP once you have obtained coverage so that you can comply with the implementation requirements of the permit.

Completing the NOI Form

To complete this form, type or print in the appropriate areas only. Please make sure you complete all questions. Make sure you make a photocopy for your records before you send the completed form to the address below. You may also use this paper form as a checklist for the information you will need when filing an NOI electronically via DEC's OASys system. <http://dec.alaska.gov/water/oasys/index.html>

Section I. Operator Information

Provide the name of the contact person and the legal name of the firm, public organization, or any other public entity that operates the facility described in this application. An operator of a facility is a legal entity that controls the operation of the facility.

Provide the operator's mailing address, telephone number, fax number (optional), and email address. Correspondence will be sent to this address.

Section II Billing Contact Information

Provide the name of the contact person and the legal name of the firm, public organization, or any other public entity that is responsible for accounts payable for this facility.

Provide the billing contact's mailing address, telephone number, fax number (optional), and email address. Correspondence for billing purposes will be sent to this address. If the billing contact address is the

same as the operator, check the box and continue to Section III Facility Information. See 18 AAC 72.956 for applicable authorization fee to be paid with the submittal of the NOI.

Section III. Facility Information

Enter the facility's official or legal name. Unless the name of your facility has changed, please use the same name provided on prior NOIs or permit applications.

Indicate if industrial storm water discharges from your facility were previously covered by an NPDES or APDES permit.

If your facility was covered by the MSGP-2008, please include the tracking number that you received in your confirmation letter or email from DEC's or EPA's Storm water Program. You can find the tracking number assigned to your previous NOI on DEC's Online Permit Search: <http://dec.alaska.gov/Applications/Water/WaterPermitSearch/Search.aspx>

Enter the street address, including city, state, zip code, borough or similar government subdivision of the actual physical location of the facility. Do NOT use a P.O. Box.

Provide the facility latitude and longitude in one of three formats: (1) degrees, minutes, seconds; (2) degrees, minutes, decimal; or (3) decimal degrees. You can obtain your facility's latitude and longitude through Global Positioning System (GPS) receivers, U.S. Geological Survey (USGS) quadrangle or topographic maps, or EPA's web-based siting-tools, among other methods. Refer to <http://www.epa.gov/npdes/stormwater/msgp> for guidance on the use of these methods. For consistency, DEC requests you take measurements from the location of your facility's storm water outfall. Outfalls are locations where the storm water exits the facility, including pipes, ditches, swales, and other structures that transport storm water. If there is more than one outfall present, measure at the primary outfall (i.e., the outfall with the largest volume of storm water discharge associated with industrial activity).

Identify the data source that you used to determine the facility latitude and longitude. If you did not use a USGS quadrangle or topographic map or GPS receivers, then select "Other" and write the method used on the line provided. If you used a USGS quadrangle or topographic map, write the map scale on the line provided. Scale should be identified on the map.

Enter the estimated area of industrial activity at your site exposed to storm water, in acres.

Indicate if the facility is considered a "federal facility". Federal facilities include any buildings, installations, structures, land, public works, equipment, aircraft, vessels, and other vehicles and property, owned or leased by the federal government.

Section IV. Discharge Information

Discharge to MS4

Indicate whether storm water from your site will be discharged into a municipal separate storm sewer system (MS4). An MS4 is a conveyance or system of conveyances, including roads with drainage systems, municipal streets, catch basins, storm drains, curbs and gutters, ditches and man-made channels owned or operated by a state, city, town, borough, district, association, or other public body used to collect or convey storm water. If you check "Yes" then identify the name of the MS4 operator on the line provided. If you are uncertain of the MS4 operator, contact your local government for that information. MS4s are different than combined sewers, which are designed to convey both storm water and sanitary wastewater. Discharges to combined sewers do not require an APDES permit but may be subject to other CWA requirements (contact the combined sewer operator for more information).

Receiving Waters and Wetlands

Enter information regarding your discharge. If additional space is needed fill out Attachment 1, as follows.

- a. Indicate in column "a" of the table the name(s) of the receiving water(s) into which storm water from your facility will discharge. Also provide in parentheses the name of the impaired water (and segment, if applicable) into which your storm water is discharged. If you identified more than one receiving water for your facility, indicate the first receiving water and complete question b and c (if applicable), before entering the next receiving water. Your receiving water may be a lake, stream, river, ocean, wetland, or other water body, and may or may not be located adjacent to your facility. Your storm water may discharge directly to the receiving water or indirectly via a storm sewer system, an open drain or ditch, or other conveyance structure. Do NOT list a man-made conveyance, such as a storm sewer system, as your receiving water. Indicate the first receiving water your storm water discharge enters. For example, if your discharge enters a storm sewer system that empties into Trout Creek, which flows into Pine River, your receiving water is Trout Creek, because it is the first water body your discharge will reach. Similarly, a discharge into a ditch that feeds Spring Creek should be identified as "Spring Creek" since the ditch is a manmade conveyance. If you discharge into a MS4, you must identify the water body into which that portion of the storm sewer discharges. That information should be readily available from the operator of the MS4.

- b. Indicate in column "b" of the table whether you discharge directly to an impaired water (lake, stream segment, estuary, etc), listed as "impaired" under section 303(d) of the Clean Water Act. DEC maintains a list of waters that are impaired. You can view the DEC impaired water body list at:
<http://dec.alaska.gov/water/wqsar/index.htm>

If you discharge into a stream segment that is upstream of a listed impaired water but which is not itself on the state's impaired waters list, answer "no" to this question. In this case, requirements in the MSGP for discharges into impaired waters do not apply to you, unless notified otherwise by DEC.

- c. Answer the following three questions only if you answered "Yes" to b:
 - i. Provide the pollutant(s) listed as causing the impairment in the water identified in b. Enter each pollutant individually on a separate row in the table.
 - ii. Out of the pollutant(s) that you identified in c(i), indicate which pollutants you believe will be present in your discharge. If you do not expect the pollutant(s) to be in your discharge, then select "no".
 - iii. Indicate the pollutant(s) that have a Total Maximum Daily Load (TMDL) for the impaired stream segment that you identified in ii. Check DEC for lists of waters with approved or established TMDLs
(http://dec.alaska.gov/water/tmdl/tmdl_index.htm).

Federal Effluent Limitation Guidelines and Sector-Specific Requirements

Depending on your industrial activities, your facility may be subject to effluent limitation guidelines which include additional effluent limits and monitoring requirements for your facility. Please review these requirements, described in Part 4.3 of the MSGP and check any appropriate boxes on the NOI form.

For Sector S facilities (Air Transportation), indicate whether you anticipate that the entire airport facility will use more than 100,000 gallons of glycol-based deicing/anti-icing chemicals and/or 100 tons or more of urea on an average annual basis. If so, additional effluent limits and monitoring conditions apply to your discharge (see Part 11 Sector S of the 2015 MSGP).

List the four-digit Standard Industrial Classification (SIC) code and/or two character activity code that best describes the primary industrial activities performed by your facility under which you are required to obtain permit coverage. Your primary industrial activity includes any activities performed on-site which are (1) identified by the facility's one SIC code for which the facility is primarily engaged; and (2) included in the narrative descriptions of 40 CFR 122.26(b)(14)(i), (iv), (v), or (vii), and (ix). See Appendix D of the MSGP for a complete list of SIC codes and activities codes.

If your site has co-located industrial activities that are not identified as your primary industrial activity, identify the sector and subsector codes that describe these other industrial activities. For a complete list of sector and subsector codes, see Appendix D of the MSGP.

Indicate whether your facility is currently inactive and unstaffed.

- If so then indicate whether your facility will be inactive and unstaffed for the entire permit term; or, if not, specify the specific length of time in units of days, weeks, months, or years (e.g. 3 months) that you expect the facility to be inactive and unstaffed.

Section V. Storm Water Pollution Prevention Plan (SWPPP) Contact Information

Identify the name, telephone number, and email address of the person who will serve as a contact for DEC on issues related to storm water management at your facility. This person should be able to answer questions related to storm water discharges, the SWPPP, and other issues related to storm water permit coverage or have immediate access to individuals with that knowledge. This person does not have to be the facility operator but should have intimate knowledge of storm water management activities at the facility.

If you are making your SWPPP publicly available on a website, provide the appropriate Internet URL address.

Section VI. Certification Information

The NOIs, must be signed as follows:

- (1) For a corporation, a responsible corporate officer shall sign the NOI, a responsible corporate officer means:
 - (A) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
 - (B) the manager of one or more manufacturing, production, or operating facilities, if
 - (i) the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;
 - (ii) the manager can ensure that the necessary systems are established or actions taken to gather complete and

accurate information for permit application requirements; and

- (iii) authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

- (2) For a partnership or sole proprietorship, the general partner or the proprietor, respectively; or
- (3) for a municipality, state, or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of an agency means
 - (A) the chief executive officer of the agency; or
 - (B) a senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

Include the name, title, organization and email address of the person signing the form and the date of signing. An unsigned or undated NOI form will not be considered valid application for permit coverage.

If the NOI was prepared by someone other than the certifier (for example, if the NOI was prepared by the facility SWPPP contact or a consultant for the certifier's signature), include the name, organization, telephone number, and email address of the NOI preparer.

Where to File the NOI Form

DEC encourages you to complete the NOI form electronically via the Internet. DEC's Online Application System (OASys) can be found at <http://dec.alaska.gov/water/oasys/index.html>. Filing electronically is the fastest way to obtain permit coverage and help ensure that your NOI is complete. If you choose not to file electronically, you must send the NOI to the address listed below.

If you file by mail, please submit the original form with a signature in ink. DEC will not accept a photocopied signature. Remember to retain a copy for your records.

NOIs sent by mail:

Alaska Dept. of Environmental Conservation
Wastewater Discharge Authorization Program
Storm Water NOI
555 Cordova Street
Anchorage, AK 99501
Phone: (907) 269-6285


Your SWPPP needs to be submitted with the NOI as required in Part 5 of the MSGP. You must keep a copy of your SWPPP on-site or otherwise make it available to facility personnel responsible for implementing provisions of the permit.

Appendix M
Certifications - SWPPP & No Urea Usage

SWPPP CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: John Parrott Title: Airport Manager

Signature:  Date: 6-1-15


ANC CERTIFICATION STATEMENT FOR UREA

This is to certify that the ANC facility does not utilize urea as a pavement deicer. (This certification must be done annually.)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: John Parrott

Title: Airport Manager

Signature: 

Date: 6-1-15

Appendix N
APDES MSGP 2015 – AKR060000
(with Sector S only)



ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM
MULTI-SECTOR GENERAL PERMIT FOR STORM WATER
DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY
(MSGP)

Permit Number: AKR060000

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, AK 99501

In compliance with the provisions of the Clean Water Act (CWA), 33 U.S.C. §1251 *et seq.*, as amended by the Water Quality Act of 1987, P.L. 100-4, this permit is issued under provisions of Alaska Statutes (AS) 46.03; the Alaska Administrative Code (AAC) as amended; and other applicable State laws and regulations. Operators of storm water discharges associated with industrial activity located in an area identified in Part 1.1 where the Alaska Department of Environmental Conservation (DEC) is the permitting authority are authorized to discharge to waters of the United States in accordance with the eligibility and Notice of Intent (NOI) requirements, effluent limitations, inspection requirements, and other conditions set forth in this permit. This permit is structured as follows:

- General requirements that apply to all facilities are found in Parts 1 through 10, and
- Industry sector-specific requirements are found in Part 11.

The Appendices (A through F) contain additional permit conditions that apply to all operators covered under this permit.

This permit becomes effective on April 1, 2015.

This permit and the authorization to discharge expire at midnight, March 31, 2020.

The applicant shall reapply for a permit reissuance on or before October 3, 2019, 180 days before the expiration of this permit.

Signature

Wade Strickland
Printed Name

February 19, 2015
Date

Program Manager
Title

**APDES MULTI-SECTOR GENERAL PERMITS FOR STORM WATER
DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY**

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Appendices

Appendix A – Standard Conditions

Appendix B – Abbreviations and Acronyms

Appendix C – Definitions

Appendix D – Facilities and Activities Covered

Appendix E – Calculating Hardness in Receiving Waters for Hardness Dependent Metals

Appendix F – MSGP Forms

Notice of Intent (NOI) Form

Notice of Termination (NOT) Form

Annual Report Form

Corrective Action Form

NOI Modification Form

MSGP Industrial Discharge Monitoring Report (MDMR)

No Exposure Certification Form

Noncompliance Notification Form

SCHEDULE OF SUBMISSIONS

The Schedule of Submissions summarizes some of the required submissions and activities the permittee must complete and/or submit to the Alaska Department of Environmental Conservation (DEC) during the term of this permit. The permittee is responsible for all submissions and activities even if they are not summarized below.

Table: Schedule of Submissions				
Permit Part	Submittal or Completion	Frequency	Due Date	Submit to ^a
1.3	No Exposure Certification	Once, depending on facility status	Once every five years	Permitting Program
2.1.3, 5.2	Storm Water Pollution Prevention Plan (SWPPP)	Once at beginning of coverage, updated as needed	At filing of NOI	Permitting Program
2.1.5, 2.2	Notice of Intent (NOI)	Once at beginning of coverage	Once per permit cycle	Permitting Program
2.7	NOI Modification	As needed	As needed	Permitting Program
7.2.1.2, 7.2.2.1	Monitoring	Quarterly during first year	30 days after receipt of lab results	Compliance Program
9.3	Noncompliance Notification Form	Upon exceedance of effluent limit	30 days after receipt of lab results	Compliance Program
8.4	Corrective Action Report	Upon exceedance (See Part 8.1 and 8.2)	Submit with Annual Report	Compliance Program
9.2	Annual Report	Annually	45 days after conducting comprehensive inspection	Compliance Program
9.4	Additional Reporting	See Section for details	See Section for details	Compliance Program
10.1	Notice of Termination	Once	At end of permit coverage	Permitting Program
Notes:				
a. See Part 9.6 Addresses for Reports				

Summary of Permit Required On-Site Documentation

Permit Part	Document Name or Title	Frequency	Purpose of Document
1.3	No Exposure Certification	Once every five years	To demonstrate facility has reviewed the permit and facility to determine they do not need to file for permit coverage
2.1.3, 5.2	SWPPP	Developed prior to submitting the NOI. Updated as necessary	To describe the project and the control measures to minimize the discharge of pollutants into waters of the U.S. Documents installation, maintenance, inspections, corrective actions, and reporting.
2.1.5, 2.2	NOI	Once at start of coverage	Applicant request for authorization to discharge under permit coverage
	DEC NOI Reply Letter	Once at start of coverage	To provide permittee with DEC permit tracking number indicating project is covered by MSGP
2.7	NOI Modification	As needed	To modify the original NOI if facility conditions or lead personnel change
5.8.3	Copy of Permit Part 1-10 and Sector specific section	Include in SWPPP	To provide reference during permit period
6.1, 6.3.2	Inspection Reports	Conducted at frequency specified in MSGP and SWPPP	To monitor compliance with SWPPP and MSGP
7.2, 7.2.2.1, 7.2.1.2	Monitoring Reports	Conducted at frequency specified in MSGP	To monitor compliance with MSGP
7.2.2.3, 9.3	Noncompliance Notification	As needed	To report any exceedances found during monitoring
8.4	Corrective Action Report	As needed	To report the corrective actions taken at the facility
9.2	Annual Report	Annually	To report annual results of inspections
9.4	Additional Reporting	As required	To provide additional information
10.1	Notice of Termination	Once	To close coverage by the permit.

1. Coverage under this Permit.

1.1 Permit Area.

This general permit covers waters of the United States (U.S.) located in the State of Alaska, except the Indian Reservation of Metlakatla and the Denali National Park and Preserve.

1.2 Eligibility.

1.2.1 Facilities Covered. To be eligible to discharge under this permit, a permittee must (1) have a storm water discharge associated with industrial activity from the permittee's primary industrial activity, as defined in Appendix C, provided their primary industrial activity is included in Appendix D, or (2) be notified by DEC that the permittee is eligible for coverage under Sector AD of this permit.

1.2.2 Allowable Storm Water Discharges. Unless otherwise made ineligible under Part 1.2.4, the following discharges are eligible for coverage under this permit:

1.2.2.1 Storm water discharges associated with industrial activity for any primary industrial activities and co-located industrial activities, as defined in Appendix C;

1.2.2.2 Discharges designated by DEC as needing a storm water permit as provided in Sector AD;

1.2.2.3 Discharges that are not otherwise required to obtain APDES permit authorization but are commingled with discharges that are authorized under this permit; and

1.2.2.4 Discharges subject to any of the national storm water-specific effluent limitations guidelines listed in Table 1-1.

*(Table 1-1: Storm Water-Specific Effluent Limitations Guidelines
located on following page.)*

Table 1-1: Storm Water-Specific Effluent Limitations Guidelines

Regulated Discharge	40 CFR Section	MSGP Sector	New Source Performance Standard (NSPS)	New Source Date
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	Part 429, Subpart I	A	Yes	1/26/81
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	Part 418, Subpart A	C	Yes	4/8/74
Runoff from asphalt emulsion facilities	Part 443, Subpart A	D	Yes	7/28/75
Runoff from material storage piles at cement manufacturing facilities	Part 411, Subpart C	E	Yes	2/20/74
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	Part 436, Subparts B, C, and D	J	No	N/A
Runoff from hazardous waste and non-hazardous waste landfills	Part 445, Subparts A and B	K, L	Yes	2/2/00
Runoff from coal storage piles at steam electric generating facilities	Part 423	O	Yes	11/19/82 (10/8/74) ¹
Existing and new primary airports with 1,000 or more annual jet departures that discharge wastewater associated with airfield pavement deicing that contains urea commingled with stormwater	Part 449, Subpart A	S	Yes	6/15/12

1.2.3 Allowable Non-Storm Water Discharges. The following are the non-storm water discharges authorized under this permit, provided the non-storm water component of the permittees discharge is in compliance with Part 4.2.10:

- Discharges from fire-fighting activities;
- Fire hydrant flushings;
- Potable water, including water line flushings;
- Uncontaminated condensate from air conditioners, coolers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Irrigation drainage;
- Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;

¹ NSPS promulgated in 1974 were not removed via the 1982 regulation; therefore wastewaters generated by Part 423-applicable sources that were New Sources under the 1974 regulations are subject to the 1974 NSPS.

- Pavement wash waters where no detergents or hazardous cleaning products are used (e.g., bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols), and the wash waters do not come into contact with oil and grease deposits or any other toxic or hazardous materials (unless cleaned up using dry clean-up methods). The permittee is prohibited from directing any authorized pavement wash waters directly into any surface water or storm drain inlet unless the permittee has implemented appropriate control measures that meet the non-numeric effluent limits in Part 4.2. Where appropriate control measures are not in place, wash water runoff must first undergo treatment prior to discharge such as filtration, detention, or settlement;
- Wheel wash water that does not use detergents;
- Routine external building washdown / power washwater that does not use detergents or hazardous cleaning products, (such as those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols);
- Uncontaminated ground water or spring water;
- Foundation or footing drains where flows are not contaminated with process materials;
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but not intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown or drains);
- Discharges from the spray down of lumber and wood product storage yards where no chemical additives are used in the spray-down waters and no chemicals are applied to the wood during storage (applicable only to Sector A facilities provided the non-stormwater component of the discharge is in compliance with the non-numeric effluent limits requirements in Part 4.2).

1.2.3.1 Also allowed are discharges of storm water listed above in Parts 1.2.2 or authorized non-storm water discharges in Part 1.2.3, commingled with a discharge authorized by a different APDES permit and/or a discharge that does not require APDES permit authorization.

1.2.4 Limitations on Coverage.

1.2.4.1 **Discharges Mixed with Non-Storm Water.** Storm water discharges that are mixed with non-storm water, other than those non-storm water discharges listed in Part 1.2.3, are not eligible for coverage under this permit.

- 1.2.4.2 **Discharges Associated with Construction Activity.** Storm water discharges associated with construction activity disturbing one acre or more, or that are part of a larger common plan of development or sale if the larger common plan will ultimately disturb one acre or more, are not eligible for coverage under this permit, unless in conjunction with mining activities or certain oil and gas extraction activities as specified in Sectors G, H, I, and J of this permit.
- 1.2.4.3 **Discharges Currently or Previously Covered by another Permit.** Unless the permittee received written notification from DEC specifically allowing these discharges to be covered under this permit, the permittee is not eligible for coverage under this permit for any of the following:
- Storm water discharges associated with industrial activity that are currently covered under an individual APDES permit or an alternative APDES general permit;
 - Discharges covered within five years prior to the effective date of this permit by an individual permit or alternative general permit where that permit established site-specific numeric water quality-based limitations developed for the storm water component of the discharge; or
 - Discharges from facilities where any APDES permit has been or is in the process of being denied, terminated, or revoked by EPA (this does not apply to the routine reissuance of permits every five years).
- 1.2.4.4 **Discharges Subject to Effluent Limitations Guidelines.** For discharges subject to storm water effluent limitation guidelines under 40 CFR, Subchapter N, only those storm water discharges identified in Table 1-1 are eligible for coverage under this permit.
- 1.2.4.5 **Eligibility for New Dischargers: Based on Water Quality Standards.** A new discharger (as defined in Appendix C), is not eligible for coverage under this permit for discharges that DEC, prior to authorization under this permit, determines will not meet any WQS. Where such a determination is made prior to authorization, DEC may notify the applicant that an individual or other general permit APDES application is necessary in accordance with Part 2.8. However, DEC may authorize coverage under this permit after the applicant has included appropriate controls and implementation procedures designed to ensure the discharge meets WQS. In the absence of information demonstrating otherwise, DEC expects that compliance with the storm water control requirements of this permit, including the requirements applicable to such discharges in Part 4, will meet WQS.

1.2.4.6 **New Discharges to Water Quality Impaired Waters.**² If the permittee is a new discharger they are not eligible for coverage under this permit to discharge to an “impaired water”, as defined in Appendix C unless they:

- Prevent all exposure to storm water of the pollutant(s) for which the waterbody is impaired, and retain documentation of procedures taken to prevent exposure onsite with the SWPPP; or
- Prior to submitting the permittee’s NOI, provide to the Department technical information or other documentation that the pollutant(s) for which the waterbody is impaired is not present at the site, and retain documentation of this finding with their SWPPP; or
- Prior to submitting the permittee’s NOI, provide to the Department data or other technical documentation to support a conclusion that the discharge is not expected to cause or contribute to an exceedance of a water quality standard (WQS), and retain such data onsite with the SWPPP. To do this, the permittee must provide data and other technical information to the Department sufficient to demonstrate:
 - For discharges to waters without an EPA approved or established Total Maximum Daily Load (TMDL), that the discharge of the pollutant for which the water is impaired will meet in-stream water quality criteria at the point of discharge to the waterbody; or
 - For discharges to waters with an EPA approved or established TMDL, that there are sufficient remaining wasteload allocations in an EPA approved or established TMDL to allow the permittees discharge and that existing dischargers to the waterbody are subject to compliance schedules designed to bring the waterbody into attainment with WQS. The permittee must also evaluate the recommendations in the Implementation Section of the EPA approved or established TMDL and incorporate applicable measures into their operations.

A permittee is eligible under Part 1.2.4.6 if they receive an affirmative determination from the Department that their discharge will not contribute to the existing impairment, in which case the permittee must maintain such determination onsite with the SWPPP, or if the Department fails to respond within 30 days of submission of data to the Department.

² The project will be considered to discharge to an impaired water if the first water of the U.S. to which the discharge enters is identified by the Department pursuant to Section 303(d) of the CWA as not meeting a WQS, or is included in an EPA-approved or established total maximum daily load (TMDL). For discharges that enter a storm sewer system prior to discharge, the first water of the U.S. to which the discharge is the waterbody that receives the stormwater discharge from the storm sewer system.

1.3 Conditional Exclusion for No Exposure.

If the permittee is covered by this permit, and becomes eligible for a no exposure exclusion from permitting under 40 CFR 122.26(g), the permittee may file a No Exposure Certification. The permittee is no longer required to have a permit upon submission of a complete and accurate no exposure certification to DEC. If the permittee is no longer required to have permit coverage because of a no exposure exclusion and has submitted a No Exposure Certification form to DEC, they are not required to submit a Notice of Termination (NOT). The permittee must submit a No Exposure Certification to DEC once every five years from the initial date of filing.

Facilities which have multiple industrial sectors covered under one permit can not use the No Exposure Certification form to remove those individual sectors from permit coverage. Upon a thorough evaluation to determine some sectors have no exposure to storm water, those areas must be noted in the facility wide SWPPP and inspected annually during the comprehensive site inspections to ensure no exposure exists. If inspections reveal those individual sectors eligible for coverage under this permit have exposure, the SWPPP must be updated to include those sectors and all permit requirements applied to those areas. The No Exposure Certification for Exclusion applies to an entire facility and not individual outfalls or areas located within the facility covered under a single permit.

2. Authorization under this Permit.

2.1 How to Obtain Authorization.

To obtain authorization under this permit, the permittee must:

- 2.1.1 Be located in the area where DEC is the permitting authority;
- 2.1.2 Meet the Part 1.2 eligibility requirements;
- 2.1.3 Develop a SWPPP according to the requirements in Part 5 of this permit. The permittee must submit a copy of the SWPPP to DEC as specified in Part 9.6;
- 2.1.4 Select, design, install, and implement control measures in accordance with Part 4.2 to meet numeric and non-numeric effluent limits;
- 2.1.5 Submit a complete and accurate Notice of Intent (NOI) either using DEC's electronic Notice of Intent (eNOI) system (accessible at <http://dec.alaska.gov/water/wnpspc/stormwater/APDESeNOI.html>) or using a paper form (included in Appendix F of this permit) and then submitting that paper form to the address listed in Part 2.2.2; and
- 2.1.6 Pay the general permit authorization fee in accordance with 18 AAC 72. Existing permittees when renewing permit coverage do not need to pay two permit authorization fees in one calendar year;

- 2.1.7 DEC will post on the Internet, at <http://dec.alaska.gov/Applications/Water/WaterPermitSearch/Search.aspx>, all authorizations issued. Late NOIs will be accepted but authorization to discharge will not be retroactive.
- 2.1.8 If the information on the NOI is incorrect or is missing, the NOI will be deemed incomplete and permit authorization will not be granted. A complete NOI shall include the following information, at a minimum:
- 2.1.8.1 The operator information includes: Organization name, contact person, complete mailing address, telephone number and fax number and email address if available;
 - 2.1.8.2 The billing contact information includes: organization name, contact person, complete mailing address, telephone number and fax number and email address if available. If the billing contact information is the same as the operator information, check the box on the NOI indicating that it is the same;
 - 2.1.8.3 The industrial facility information includes: facility name, physical location, the city and zip code, the borough, latitude and longitude, how the latitude and longitude were determined, an estimate of the area of industrial activity exposed to storm water, if the facility storm water discharges have been previously permitted under an APDES permit, and if this is a federal facility;
 - 2.1.8.4 The discharge information includes: does the facility discharge to a municipal separate storm sewer system (MS4), and if so the name of the MS4 operator, the name(s) of the water bodies to which the facility discharges, does the facility discharge to a water body that is impaired or have a TMDL, if it does then is the discharge consistent with the assumptions and requirements of the TMDL, if a new discharge is the discharge to a tier 2 or tier 3 waterbody, and is any storm water discharge subject to federal effluent limitation guideline and sector-specific requirements, and if so which affected MSGP Sector;
 - 2.1.8.5 The additional information includes: the four-digit Standard Industrial Classification (SIC) code or two-letter Activity Code that best represents the products or services rendered by the facility in which it is primarily engaged in and applicable sector and subsectors of industry activity, including co-located industrial activity for which coverage is requested, and is the facility presently inactive or unstaffed and if so for how long;
 - 2.1.8.6 The SWPPP information includes: SWPPP contact name, phone, email, and URL for SWPPP (if applicable) (the SWPPP does not need to be reposted on the internet each time it is updated);
 - 2.1.8.7 The signatory information in compliance with Appendix A, Part 1.12

2.2 How to Submit an NOI.

- 2.2.1 Electronically (strongly encouraged) at <http://dec.alaska.gov/water/wnpspc/stormwater/APDESeNOI.html>. Operators who submit an eNOI must pay the general permit authorization fee during a step in the eNOI process where payment is required.
- 2.2.2 Through use of a paper form (available at the above web site) and then submit that paper form to address in Appendix A, Part 1.1.1.
- 2.2.3 Each operator submitting the NOI via paper form³ must include a check payable to the “State of Alaska” for the amount of the General Permit Authorization Fee, in accordance with 18 AAC 72.

(Submission Deadlines continued on next page.)

³ Note: Electronic submittal of an NOI will likely be processed more quickly and result in faster receipt of an authorization to discharge.

2.3 Submission Deadlines.

Timeframes for discharge authorization are contained in Table 2-1.

Table 2-1: NOI Submittal Deadlines/Discharge Authorization Dates

Category	NOI Submission Deadline	Discharge Authorization Date ¹	Fee
<u>Existing Dischargers</u> – in operation as of September 29, 2013 and authorized for coverage under 2008 MSGP.	Existing Dischargers must submit new NOI and SWPPP no later than one hundred twenty (120) calendar days after the effective date of this permit.	Seven (7) calendar days after DEC posts the NOI. The permittees authorization under the 2008 MSGP is automatically continued until they have been granted coverage under this permit or an alternative permit, or coverage is otherwise terminated.	Existing Dischargers pay annual fee based on invoice from DEC
<u>New Dischargers or New Sources</u> - who commence discharging between September 29, 2013 and one hundred twenty (120) days after the effective date of this permit.	As soon as possible but no later than one hundred twenty (120) calendar days after the effective date of this permit.	Seven (7) calendar days after DEC posts the NOI.	New Discharges pay fee at time of submitting NOI
<u>New Dischargers or New Sources</u> - who commence discharging one hundred twenty (120) calendar days after the effective date of this permit.	A minimum of thirty (30) calendar days prior to commencing discharge.	Seven (7) calendar days after DEC posts the NOI.	New Discharges pay fee at time of submitting NOI
<u>New Owner/Operator of Existing Discharger</u> - transfer of ownership and/or operation of a facility whose discharge is authorized under this permit	New Owner shall submit a new NOI no later than thirty (30) calendar days after the date that the transfer will take place to the new owner/operator.	Seven (7) calendar days after DEC posts the NOI.	New Owner pays fee upon receipt of invoice from DEC
<u>Other Eligible Dischargers</u> - in operation prior to September 29, 2013, but not covered under the 2008 MSGP or another APDES permit.	Immediately, to minimize the time discharges from the facility will continue to be unauthorized.	Seven (7) calendar days after DEC posts the NOI.	

Note:

1. Based on a review of the permittees NOI or other information, DEC may delay their authorization for further review, notify the permittee that additional effluent limitations or control measures are necessary, or may deny coverage under this permit and require submission of an application for an individual or other APDES general permit, as detailed in Part 2.8. In these instances, DEC will notify the permittee in writing of the delay, of the need for additional effluent limits or control measures, or of the request for submission of an individual APDES permit application.
2. If the permittee has missed the deadline to submit the NOI, any and all discharges from the industrial activities will continue to be unauthorized under the CWA until they are covered by this or a different APDES permit. DEC may take enforcement action for any unpermitted discharges that occur between the commencement of discharging and discharge authorization.
3. Discharges are not authorized if the NOI is incomplete or inaccurate or if the permittee was never eligible for permit coverage.

2.4 Date of Authorization to Begin Discharge.

An operator is authorized to discharge industrial storm water under the terms and conditions of this permit seven (7) calendar days after DEC's acknowledgment of receipt of the operators complete and paid for NOI is posted on DEC's APDES website (<http://dec.alaska.gov/water/wnpspc/stormwater/stormwater.htm>), unless DEC notifies the operator that the authorization is delayed. Once the authorization is granted by the Department the applicant is then considered a permittee covered by this permit.

2.5 Continuation of Expired General Permit.

- 2.5.1 If this permit is not reissued or replaced prior to the expiration date, it will be administratively continued in accordance with 18 AAC 83.155 and remain in force and effect for discharges that were covered prior to expiration. The permittee is required to abide by all limitations, monitoring, and reporting included herein if the permit enters administrative extension until such time a permit is reissued authorizing the discharge or an NOT is submitted by the permittee. If a permittee is authorized to discharge under this permit prior to the expiration date, any discharges authorized under this permit will automatically remain covered by this permit until the earliest of:
 - 2.5.1.1 Authorization for coverage under a reissued permit or a replacement of this permit following a permittee's timely and appropriate submittal of a complete NOI requesting authorization to discharge under the new permit and compliance with the requirements of the new permit;
 - 2.5.1.2 Submittal of a NOT;
 - 2.5.1.3 Issuance or denial of an individual permit for the facility's discharges; or
 - 2.5.1.4 A formal decision by DEC not to reissue this general permit or not cover a particular discharger previously covered by the general permit, at which time DEC will identify a reasonable time period for covered dischargers to seek coverage under an alternative general permit or an individual permit. Coverage under this permit will cease at the end of this time period.
- 2.5.2 Any permittee with a discharge covered under the 2008 MSGP that the Department determines shall transition to a different APDES permit for that discharge that filed a timely and complete NOI and was granted administrative extension of the 2008 MSGP, the administrative extension (i.e., continued permit coverage) from the 2008 MSGP survives the effective date of the 2015 MSGP until the facility receives coverage under the new APDES permit.

2.6 Permit Compliance.

Any noncompliance with any of the requirements of this permit constitutes a violation of the CWA. As detailed in Part 8 (Corrective Actions) of this permit, failure to take any required corrective actions constitute an independent, additional violation of this permit and the CWA. Any actions and time periods specified for remedying noncompliance do not absolve parties of the initial underlying noncompliance. Where corrective action is triggered by an event that does not itself constitute permit noncompliance, such as an exceedance of an applicable benchmark, there is no permit violation provided the permittee takes the required corrective action within the relevant deadlines established in Part 8.3.

2.7 Submittal of Modification to Original NOI.

- 2.7.1 For an existing permittee, if any of the information supplied on the NOI form changes such as name of receiving waterbody, acreage of industrial area exposed to storm water, addition or deletion of industrial sectors, and facility contact information, the permittee must submit an NOI Modification form within thirty (30) calendar days after the change. See Appendix F for the modification form.
- 2.7.2 At facilities where there is a transfer of ownership and/or a new operator takes over operational control at an existing facility the new operator shall submit an NOI no later than thirty (30) calendar days after a change in owner/operator. The previous owner/operator must submit a NOT no later than thirty (30) calendar days after DEC authorization of the new operator. The new operator does not need to pay a permit authorization fee if the facility has paid for the year in which the transfer occurs.

2.8 Alternative Permits.

2.8.1 DEC Requiring Coverage under an Alternative Permit.

DEC may require a permittee to apply for and/or obtain authorization to discharge under an alternative permit, i.e., either an individual APDES permit or an alternative APDES general permit in accordance with 40 CFR 122.64 and 124.5. Any interested person may petition DEC to take action under this paragraph. If DEC requires the permittee to apply for an alternative APDES permit, DEC will notify the permittee in writing that a permit application is required. This notification will include a brief statement of the reasons for this decision and will contain alternative permit application requirements, including deadlines for completing the application.

In addition, if the permittee is an existing discharger authorized to discharge under this permit, the notice will set a deadline to file the permit application, and will include a statement that on the effective date of the individual APDES permit, or the alternative general permit as it applies to the permittee, coverage under this general permit will terminate. DEC may grant additional time to submit the application if the permittee requests it. If the permittee is covered under this permit and fails to submit an alternative APDES permit

application as required by DEC, then the applicability of this permit to the permittee is terminated at the end of the day specified by DEC as the deadline for application submittal. DEC may take appropriate enforcement action for any unpermitted discharge.

2.8.2 Permittee Requesting Coverage under an Alternative Permit.

A permittee may request to be excluded from coverage under this general permit by applying for an individual permit. In such a case, the permittee must submit an individual permit application in accordance with the requirements of 18 AAC 83.305 – 83.385 with reasons supporting the request, to DEC at the address listed in Part 9.6 of this permit. The request may be granted by issuance of an individual permit or authorization of coverage under an alternative general permit if the permittees reasons are adequate to support the request.

When an individual APDES permit is issued to a permittee or a permittee is authorized to discharge under an alternative APDES general permit, the permittees authorization to discharge under this permit is terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit.

3. Compliance with Standards and Limits.

3.1 Requirements for all Facilities.

- 3.1.1 A permittee must select, install, implement and maintain control measures (described in Part 4) at the facility that minimize pollutants in the discharge as necessary to meet WQS (18 AAC 70). A permittee must comply with all permit conditions with respect to installation and maintenance of control measures, inspections, monitoring, corrective actions, reporting and recordkeeping.
- 3.1.2 In general, except in situations explained in part 3.1.3, the storm water controls planned, developed, implemented, maintained, and updated by the permittee that are consistent with the provisions of Parts 3 through 9 and Part 11 are considered to meet the requirements of this permit to ensure that the discharges do not cause or contribute to an excursion above any WQS (18 AAC 70).
- 3.1.3 At any time after authorization, upon a DEC determination that the permittee's storm water discharges will cause, have a reasonable potential to cause, or contribute to an excursion above any WQS, DEC may require the permittee to:
 - 3.1.3.1 Take corrective actions and modify storm water controls in accordance with Part 8 to adequately address the identified water quality concerns;
 - 3.1.3.2 Submit valid and verifiable data and information that are representative of ambient conditions and indicate that the receiving water is attaining WQS; or

3.1.3.3 Minimize discharges of storm water from the facility or activity, implement corrective actions, and submit an individual permit application in accordance with Part 2.8.

3.1.4 All written responses required under Part 3.1 must include a signed certification consistent with Appendix A, Part 1.12.

3.2 Water Quality-Based Effluent Limitations.

3.2.1 Water Quality Standards (WQS).

A permittees discharge must be controlled as necessary to meet a WQS (18 AAC 70) in relation to the pollutants of concern.

DEC expects that compliance with the other conditions in this permit will control discharges as necessary to meet a WQS. If at any time the permittee becomes aware, or DEC determines, that the permittees discharge causes or contributes to an exceedance of a WQS in the receiving water, the permittee must take corrective action as required in Part 8.1, document the corrective actions as required in Parts 8.4 and 5.8, and report the corrective actions to DEC as required in Part 9.2.

Additionally, DEC may impose additional permit stipulations on a site-specific basis, or require the permittee to obtain coverage under an individual permit, if information in a permittees NOI, required reports, or from other sources indicates that their discharges are not controlled as necessary to meet a WQS in the receiving water.

3.2.2 Discharges to Water Quality Impaired Waters.⁴

3.2.2.1 ***Existing Discharge to an Impaired Water with an EPA Approved or Established TMDL.*** If the permittee discharges to an impaired water with an EPA approved or established TMDL, DEC will inform the permittee if any additional limits or controls are necessary for their discharge to be consistent with the assumptions of any available wasteload allocation in the TMDL, or if coverage under an individual permit is necessary in accordance with Part 2.8.1.

⁴ The project will be considered to discharge to an impaired water if the first water of the U.S. to which the discharge enters is identified by the Department pursuant to Section 303(d) of the CWA as not meeting an WQS, or is included in an EPA-approved or established total maximum daily load (TMDL). For discharges that enter a storm sewer system prior to discharge, the first water of the U.S. to which the discharge is the waterbody that receives the stormwater discharge from the storm sewer system.

- 3.2.2.2 **Existing Discharge to an Impaired Water without an EPA Approved or Established TMDL.** If the permittee discharges to an impaired water without an EPA approved or established TMDL, they are required to comply with Part 3.2.1 and the monitoring requirement of Part 7.2.3. Note that this provision also applies to situations where DEC determines that the permittees discharge is not controlled as necessary to meet WQS in a downstream water segment, even if their discharge is to a receiving water that is not specifically identified on a Section 303(d) list.
- 3.2.2.3 **New Discharge to an Impaired Water.** If a permittees authorization to discharge under this permit relied on Part 1.2.4.6 for a new discharge to an impaired water, the permittee must implement and maintain any control measures or conditions at the facility that enabled the permittee to become eligible under Part 1.2.4.6, and modify such measures or conditions as necessary pursuant to any Part 5 corrective actions. The permittee is also required to comply with Part 3.2.1 and the monitoring requirements of Parts 7.2.3.

4. Control Measures.

A permittee must select, design, install, and implement control measures (including best management practices) to address the selection and design considerations in Part 4.1, meet the non-numeric effluent limits in Part 4.2, and meet limits contained in applicable effluent limitations guidelines in Part 4.3. The selection, design, installation, and implementation of these control measures must be in accordance with good engineering practices and manufacturer's specifications. Note that the permittee may deviate from such manufacturer's specifications where the permittee provides justification for such deviation and includes documentation of their rationale in the part of the SWPPP that describes the permittees control measures, consistent with Part 5.2.5. If the permittee finds that their control measures are not achieving their intended effect of minimizing pollutant discharges, the permittee must modify these control measures in accordance with the corrective action requirements set forth in Part 8. Regulated storm water discharges from the permittees facility include storm water run-on that commingles with storm water discharges associated with industrial activity at the permittees facility.

In the technology-based limits included in Part 4.2 and in Part 11, the term "minimize" means reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practice.

4.1 Control Measure Selection and Design Considerations.

A permittee must use the following considerations when selecting and designing control measures:

- Preventing storm water from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from storm water;
- Using control measures in combination is more effective than using control measures in isolation for minimizing pollutants in the storm water discharge;

- Using technologically available and economically practicable and achievable in light of best industry practice;
- Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures that will achieve the limits in this permit;
- Minimizing impervious areas at the permittees facility and infiltrating runoff onsite (including bioretention cells, green roofs, and pervious pavement, among other approaches) can reduce runoff and improve groundwater recharge and stream base flows in local streams, although care must be taken to avoid ground water contamination;
- Attenuating flow using open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows;
- Conserving and/or restoring of riparian buffers will help protect streams from storm water runoff and improve water quality; and
- Using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.

4.2 Non-Numeric Technology-Based Effluent Limits.

In addition to complying with the non-numeric technology-based effluent limits in Part 11, the permittee must also:

4.2.1 Minimize Exposure.

A permittee must evaluate the facility regarding exposure of manufacturing, processing, and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) to rain, snow, snowmelt, and runoff and minimize exposure by either locating these industrial materials and activities inside or protecting them with storm resistant coverings (although significant enlargement of impervious surface area is not recommended). In minimizing exposure, the permittee should pay particular attention to the following:

- Use grading, berming, or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;
- Locate materials, equipment, and activities so that leaks are contained in existing containment and diversion systems (confine the storage of leaky or leak-prone vehicles and equipment awaiting maintenance to protected areas);
- Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants;

- Use drip pans and absorbents under or around leaky vehicles and equipment or store indoors where feasible;
- Use spill/overflow protection equipment;
- Drain fluids from equipment and vehicles that will be decommissioned or will remain unused for extended periods of time;
- Perform all cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray; and
- Ensure that all washwater, with the exception of discharges from pavement wash water and routine building washdown described in Part 1.2.3 drains to a sanitary sewer, sump, or other proper collection system (i.e., not the storm water drainage system).

The discharge of vehicle and equipment washwater, including tank cleaning operations, is not authorized by this permit. These wastewaters must be covered under a separate APDES permit, discharged to a sanitary sewer in accordance with applicable industrial pretreatment requirements, or disposed of otherwise in accordance with applicable law.

- 4.2.2 **Good Housekeeping.** A permittee must keep clean all exposed areas that are potential sources of pollutants, including but not limited to: using such measures as sweeping at regular intervals, keeping materials orderly and labeled, and storing materials in appropriate containers.
- 4.2.3 **Maintenance.** A permittee must regularly inspect, test, maintain, and repair all industrial equipment and systems to avoid situations that may result in leaks, spills, and other releases of pollutants in storm water discharged to receiving waters. The permittee must maintain all control measures that are used to achieve the effluent limits required by this permit in effective operating condition. Nonstructural control measures must also be diligently maintained (e.g., spill response supplies available, personnel appropriately trained). If the permittee finds that their control measures need to be replaced or repaired, the permittee must make the necessary repairs or modifications within 14 days or as expeditiously as practicable.
- 4.2.4 **Spill Prevention and Response Procedures.** A permittee must minimize the potential for leaks, spills and other releases that may be exposed to storm water and develop plans for effective response to such spills if or when they occur. At a minimum, the permittee must implement:
- 4.2.4.1 Procedures for plainly labeling containers (e.g., “Used Oil,” “Spent Solvents,” “Fertilizers and Pesticides,” etc.) that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur;

- 4.2.4.2 Procedures for material storage and handling, including the use of secondary containment and barriers between material storage and traffic areas, or a similarly effective means designed to prevent the discharge of pollutants from these areas;
- 4.2.4.3 Procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases. Employees who may cause, detect, or respond to a spill or leak must be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals should be a member of the permittees storm water pollution prevention team (see Part 5.1.1); and
- 4.2.4.4 Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, 40 CFR Part 302, AS 75.300 and 18 AAC 75 Article 3 occurs, the permittee must notify the National Response Center (NRC) at (800) 424-8802. During normal business hours call the nearest DEC Area Response Team Office – Southeast (Juneau) 465-5340; Central (Anchorage) 269-3063; or Northern (Fairbanks) 451-2121. Outside of normal business hours, the permittee must call (800) 478-9300 as soon as the permittee has knowledge of the discharge. State or local requirements may necessitate reporting spills or discharges to local emergency response, public health, or drinking water supply agencies. Contact information must be posted, where practicable, in locations that are readily accessible and available.
- 4.2.4.5 The permittee must provide a description of the release, the circumstances leading to the release, and the date of the release to the nearest DEC Area Response Team Office, in accordance to AS 75.300 (See Part 4.2.4.4). The permittee must also implement measures to prevent the reoccurrence of such releases and to respond to such releases.
- 4.2.5 **Erosion and Sediment Controls.** A permittee must stabilize exposed areas and contain runoff using structural and/or non-structural control measures to minimize onsite erosion and sedimentation, and the resulting discharge of pollutants. Among other actions the permittee must take to meet this limit, the permittee must place flow velocity dissipation devices at discharge locations and within outfall channels where necessary to reduce erosion and/or settle out pollutants. In selecting, designing, installing, and implementing appropriate control measures, the permittee is encouraged to consult with EPA's internet-based resources relating to BMPs for erosion and sedimentation, including the sector-specific Industrial Stormwater Fact Sheet Series, (www.epa.gov/npdes/stormwater/msgp), National Menu of Stormwater BMPs (www.epa.gov/npdes/stormwater/menuofbmps), and National Management Measures to Control Nonpoint Source Pollution from Urban Areas (www.epa.gov/owow/nps/urbanmm/index.html), and any similar State or Tribal publications such as the Alaska Storm Water guide (<http://dec.alaska.gov/water/wnpspc/stormwater/Guidance.html>.) and the Best Management Practices Manual for Gravel Quarries found at http://dec.alaska.gov/water/wnpspc/protection_restoration/bestmgmtpractices/Docs/ADECFLyer3.pdf .

- 4.2.6 **Management of Runoff.** A permittee must divert, infiltrate, reuse, contain, or otherwise reduce storm water runoff, to minimize pollutants in their discharges. In selecting, designing, installing, and implementing appropriate control measures, permittees are encouraged to consult with EPA's internet-based resources relating to runoff management, including the sector-specific Industrial Storm Water Fact Sheet Series, (www.epa.gov/npdes/stormwater/msgp), National Menu of Storm Water BMPs (www.epa.gov/npdes/stormwater/menuofbmps), and National Management Measures to Control Nonpoint Source Pollution from Urban Areas (www.epa.gov/owow/nps/urbanmm/index.html), and any similar State or Tribal publications.
- 4.2.7 **Salt Storage Piles or Piles Containing Salt.** A permittee must enclose or cover storage piles of salt, or piles containing salt, used for deicing or other commercial or industrial purposes, including maintenance of paved surfaces. A permittee must also implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile.
- 4.2.8 **Sector Specific Technology-Based Effluent Limits.** A permittee must achieve any additional non-numeric limits stipulated in the relevant sector-specific section(s) of Part 11.
- 4.2.9 **Employee Training.** A permittee must train all employees who work in areas where industrial materials or activities are exposed to storm water, or who are responsible for implementing activities necessary to meet the conditions of this permit (e.g., inspectors, maintenance personnel), including all members of the permittee's Pollution Prevention Team. Training must cover both the specific control measures used to achieve the effluent limits in this Part, and monitoring, inspection, planning, reporting, and documentation requirements in other parts of this permit. Training shall be conducted at least annually (or more often if employee turnover is high) and documented in the SWPPP.
- 4.2.10 **Non-Storm Water Discharges.** A permittee must eliminate non-storm water discharges not authorized by an APDES permit. See Part 1.2.3 for a list of non-storm water discharges authorized by this permit.
- 4.2.11 **Waste, Garbage and Floatable Debris.** A permittee must ensure that waste, garbage, and floatable debris are not discharged to receiving waters by keeping exposed areas free of such materials or by intercepting them before they are discharged.
- 4.2.12 **Dust Generation and Vehicle Tracking of Industrial Materials.** A permittee must minimize generation of dust and off-site tracking of raw, final, or waste materials. Appropriate BMPs to minimize tracking include the establishment of stabilized access and exit points.

4.3 Numeric Effluent Limitations Based on Effluent Limitations Guidelines.

If the permittee is in an industrial category subject to one of the effluent limitations guidelines identified in Table 7-1 (see Part 7.2.2.1), the permittee must meet the effluent limits referenced in Table 4-1 below:

Table 4-1: Applicable Effluent Limitations Guidelines

Regulated Activity	40 CFR Part/Subpart	Effluent Limit
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	Part 429, Subpart I	See Part 11.A.7
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	Part 418, Subpart A	See Part 11.C.4
Runoff from asphalt emulsion facilities	Part 443, Subpart A	See Part 11.D.4
Runoff from material storage piles at cement manufacturing facilities	Part 411, Subpart C	See Part 11.E.5
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	Part 436, Subparts B, C, or D	See Part 11.J.9
Runoff from hazardous waste landfills	Part 445, Subpart A	See Part 11.K.6
Runoff from non-hazardous waste landfills	Part 445, Subpart B	See Part 11.L.10
Runoff from coal storage piles at steam electric generating facilities	Part 423	See Part 11.O.8
Existing and new primary airports with 1,000 or more annual jet departures that discharge wastewater associated with airfield pavement deicing that contains urea commingled with stormwater	Part 449	See Part 11.S.9

4.4 Plan Approval for Nondomestic Wastewater Treatment Works.

For all new facilities operators who construct, install or operate any part of a nondomestic wastewater treatment works shall submit a copy of the engineering plans to DEC for review at the address in Part 9.6, and pay an engineering plan review fee (see 18 AAC 72.600 and 18 AAC 72.955). Engineering plan approval must be obtained from DEC prior to construction.

Nondomestic wastewater includes storm water runoff. All permanent storm water treatment devices shall receive engineering plan approval per 18 AAC 72.600. (For the purposes of Part 4.4 “permanent storm water treatment device” means a treatment device with a design life longer than two years.)

5. Storm Water Pollution Prevention Plan (SWPPP).

A permittee must prepare a SWPPP for their facility before submitting their Notice of Intent (NOI) for permit coverage. If a permittee prepared a SWPPP for coverage under a previous APDES permit, the permittee must review and update the SWPPP to implement all provisions of this permit prior to submitting their NOI. The SWPPP does not contain effluent limitations; the limitations are contained in Part 4 of the permit, and for some sectors, Parts 11 of the permit. The SWPPP is intended to document the selection, design, and installation of control measures. As distinct from the SWPPP, the additional

documentation requirements (see Part 5.8) are intended to document the implementation (including inspection, maintenance, monitoring, and corrective action) of the permit requirements.

5.1 Storm Water Pollution Prevention Plan (SWPPP).

For coverage under this permit, the SWPPP must contain all of the following elements:

- 5.1.1 Storm water pollution prevention team (see Part 5.2.2);
- 5.1.2 Site description (see Part 5.2.3);
- 5.1.3 Summary of potential pollutant sources (see Part 5.2.4);
- 5.1.4 Description of control measures (see Part 5.2.5);
- 5.1.5 Schedules and procedures (see Part 5.2.6); and
- 5.1.6 Signature requirements (see Part 5.2.7).

Where the SWPPP refers to procedures in other facility documents, such as a Spill Prevention, Control and Countermeasure (SPCC) Plan or an Environmental Management System (EMS) developed for a National Environmental Performance Track facility, copies of the relevant portions of those documents must be kept with the SWPPP.

5.2 Contents of the SWPPP.

5.2.1 Permittee.

Identify the permittee for the facility.

5.2.2 Storm Water Pollution Prevention Team.

Identify the staff members (by name or title) that comprise the facility's storm water pollution prevention team as well as their individual responsibilities. The storm water pollution prevention team is responsible for assisting the facility manager in developing and revising the facility's SWPPP as well as maintaining control measures and taking corrective actions where required. Each member of the storm water pollution prevention team must have ready access to either an electronic or paper copy of applicable portions of this permit and the SWPPP.

5.2.3 Site Description.

The SWPPP must include the following:

- 5.2.3.1 **Activities at the Facility.** Provide a description of the nature of the industrial activities at the facility.

5.2.3.2 **General location map.** Provide a general location map (e.g., U.S. Geological Survey (USGS) quadrangle map) with enough detail to identify the location of the facility and all receiving waters for the storm water discharges.

5.2.3.3 **Site map.** Provide a map showing:

- the size of the property in acres;
- the location and extent of significant structures and impervious surfaces;
- directions of storm water flow (use arrows);
- locations of all existing structural control measures;
- locations of all receiving waters in the immediate vicinity of the permittees facility, indicating if any of the waters are impaired and, if so, whether the waters have TMDLs established for them;
- locations of all storm water conveyances including ditches, pipes, and swales;
- locations of potential pollutant sources identified under Part 5.2.4.2;
- locations where significant spills or leaks identified under Part 5.2.4.3 have occurred;
- locations of all storm water monitoring points;
- locations of storm water inlets and outfalls, with a unique identification code for each outfall (e.g., Outfall No. 1, No. 2, etc), indicating if permittees are treating one or more outfalls as “substantially identical” under Parts 6.2.3, 5.2.6.2, and 7.1.1, and an approximate outline of the areas draining to each outfall;
- municipal separate storm sewer systems, where the facilities storm water discharges to them;
- locations and descriptions of all non-storm water discharges identified under Part 4.2.10;
- Identify the location of existing public water system (PWS) drinking water protection areas for PWS (e.g. springs, wells, or surface water intakes) that intersect the boundary of the facility;
- locations of the following activities where such activities are exposed to precipitation:
 - fueling stations;
 - vehicle and equipment maintenance and/or cleaning areas;
 - loading/unloading areas;
 - locations used for the treatment, storage, or disposal of wastes;
 - liquid storage tanks;
 - processing and storage areas;
 - immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility;
 - transfer areas for substances in bulk; and

- machinery; and
- locations and sources of run-on to the facility from adjacent property that contains significant quantities of pollutants.

5.2.4 Summary of Potential Pollutant Sources.

A permittee must document areas at their facility where industrial materials or activities are exposed to storm water and from which allowable non-storm water discharges are released. Industrial materials or activities include, but are not limited to: material handling equipment or activities; industrial machinery; raw materials; industrial production and processes; and intermediate products, by-products, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal, or conveyance of any raw material, intermediate product, final product or waste product. For each area identified, the description must include:

- 5.2.4.1 Activities in the Area.** A list of the industrial activities exposed to storm water (e.g., material storage; equipment fueling, maintenance, and cleaning; cutting steel beams).
- 5.2.4.2 Pollutants.** A list of the pollutant(s) or pollutant constituents (e.g., crankcase oil, zinc, sulfuric acid, and cleaning solvents) associated with each identified activity. The pollutant list must include all significant materials that have been handled, treated, stored, or disposed, and that have been exposed to storm water in the three years prior to the date the permittee prepared or amended the SWPPP.
- 5.2.4.3 Spills and Leaks.** A permittee must document where potential spills and leaks could occur that could contribute pollutants to storm water discharges, and the corresponding outfall(s) that would be affected by such spills and leaks. The permittee must document all significant spills and leaks⁵ of oil or toxic or hazardous pollutants that occurred in the three years prior to the date the permittee prepared the SWPPP for this permit term. Specifically, include spills or leaks that occurred in areas exposed to storm water or that drained to a storm water conveyance. The spill or leak history must be maintained in the SWPPP throughout this permit term. The permit term goes from the permit effective date to the permit expiration date.
- 5.2.4.4 Non-Storm Water Discharges.** A permittee must document that they have evaluated for the presence of non-storm water discharges and that all unauthorized discharges have been eliminated. Documentation of the evaluation must include:

- The date of any evaluation;

⁵ Significant spills and leaks include, but are not limited to, releases of oil or hazardous substances in excess of quantities that are reportable under CWA Section 311 (see 40 CFR 110.6 and 40 CFR 117.21) or Section 102 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 USC §9602. This permit does not relieve the permittee of the reporting requirements of 40 CFR 110, 40 CFR 117, 40 CFR 302, Alaska Statute 46.04 and Section 18 AAC Chapter 75 (i.e. 18 AAC 75.300) relating to spills or other releases of oils or hazardous substances. (See 4.2.4)

- A description of the evaluation criteria used;
- A list of the outfalls or onsite drainage points that were directly observed during the evaluation;
- The different types of non-storm water discharge(s) and source locations; and
- The action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), if any were identified. For example, a floor drain was sealed, a sink drain was re-routed to sanitary, or an APDES permit application was submitted for an unauthorized cooling water discharge.

5.2.4.5 ***Salt Storage.*** A permittee must document the location of any storage piles containing salt used for deicing or other commercial or industrial purposes.

5.2.4.6 ***Sampling Data.*** A permittee must summarize all storm water discharge sampling data collected at their facility during the previous permit term.

5.2.5 **Description of Control Measures.**

5.2.5.1 ***Control Measures to Meet Technology-Based and Water Quality-Based Effluent Limits.*** A permittee must document the location and type of control measures installed and implemented at the facility to achieve the non-numeric effluent limits in Part 4.2, and where applicable in Part 11, the effluent limitations guidelines-based limits in Part 4.3, the water quality-based effluent limits in Part 3.2, and describe how the permittee addressed the control measure selection and design considerations in Part 4.1. This documentation must describe how the control measures at the facility address both the pollutant sources identified in Part 5.2.4, and any storm water run-on that commingles with any discharges covered under this permit.

5.2.6 **Schedules and Procedures.**

5.2.6.1 ***Pertaining to Control Measures Used to Comply with the Effluent Limits in Part 4.*** The following must be documented in the SWPPP:

- ***Good Housekeeping*** (See Part 4.2.2) – A schedule for regular pickup and disposal of waste materials, along with routine inspections for leaks and conditions of drums, tanks and containers;
- ***Maintenance*** (See Part 4.2.3) – Preventative maintenance procedures, including regular inspections, testing, maintenance, and repair of all industrial equipment and systems, and control measures, to avoid situations that may result in leaks, spills, and other releases, and any back-up practices in place should a runoff event occur while a control measure is off-line;
- ***Spill Prevention and Response Procedures*** (See Part 4.2.4) – Procedures for preventing and responding to spills and leaks. The permittee may reference the existence of other plans for Spill Prevention Control and Countermeasure (SPCC)

developed for the facility under Section 311 of the CWA or BMP programs otherwise required by an APDES permit for the facility, provided that the permittee keeps a copy of that other plan onsite and makes it available for review consistent with Part 5.7; and

- *Employee Training* (Part 4.2.9) – A schedule for all types of necessary training.

5.2.6.2 ***Pertaining to Monitoring and Inspection.*** A permittee must document in the SWPPP procedures for conducting the four types of analytical monitoring specified by this permit, where applicable to the facility, including:

- Benchmark monitoring (see Part 7.2.1);
- Effluent limitations guidelines monitoring (see Part 7.2.2);
- Impaired waters monitoring (see Part 7.2.3); and
- Other monitoring as required by DEC (see Part 7.2.4).

For each type of monitoring, the SWPPP must document:

- Locations where samples are collected, including any determination that two or more outfalls are substantially identical;
- Parameters for sampling and the frequency of sampling for each parameter;
- Schedules for monitoring at the facility, including schedule for alternate monitoring periods for climates with irregular storm water runoff (see Part 7.1.6);
- Any numeric control values (benchmarks, effluent limitations guidelines, TMDL-related requirements, or other requirements) applicable to discharges from each outfall; and
- Procedures (e.g., responsible staff, logistics, laboratory to be used, etc.) for gathering storm event data, as specified in Part 7.1.
- If a permittee is invoking the exception for inactive and unstaffed sites for benchmark monitoring, the permittee must include in the SWPPP the information to support this claim as required by Part 7.2.1.6.

A permittee must document the following in the SWPPP if they plan to use the substantially identical outfall exception for quarterly visual assessment requirements in Part 6.2 or benchmark monitoring requirements in Part 7.2.1:

- Location of each of the substantially identical outfalls;

- Description of the general industrial activities conducted in the drainage area of each outfall;
- Description of the control measures implemented in the drainage area of each outfall;
- Description of the exposed materials located in the drainage area of each outfall that are likely to be significant contributors of pollutants to storm water discharges;
- An estimate of the runoff coefficient of the drainage areas (low = under 40%; medium = 40 to 65%; high = above 65%); and
- Why the outfalls are expected to discharge substantially identical effluents.

A permittee must document in the SWPPP their procedures for performing, as appropriate, the three types of inspections specified by this permit, including:

- Routine facility inspections (see Part 6.1);
- Quarterly visual assessment of storm water discharges (see Part 6.2); and
- Comprehensive site inspections (see Part 6.3).

For each type of inspection performed, the SWPPP must identify:

- Person(s) or positions of person(s) responsible for inspection;
- Schedules for conducting inspections, including tentative schedule for facilities in climates with irregular storm water runoff discharges (see Part 6.2.3); and
- Specific items to be covered by the inspection, including schedules for specific outfalls.

If the permittee is invoking the exception for inactive and unstaffed sites relating to routine facility inspections and quarterly visual assessments, the permittee must include in the SWPPP the information to support this claim as required by Parts 6.1.3 and 6.2.3.

5.2.7 Signature Requirements.

A permittee must sign and date the SWPPP in accordance with Appendix A, Subsection 1.12, including the date of signature.

5.3 Inspections.

- 5.3.1 The SWPPP must document the procedures for performing facility inspections specified by this permit in Part 6, and where necessary, taking corrective actions, in accordance with Part 8. At a minimum the SWPPP must document the following:
 - 5.3.1.1 Person(s) or position of person(s) responsible for conducting facility inspections;
 - 5.3.1.2 Schedules to be followed for conducting inspections;
 - 5.3.1.3 Any inspection checklist or form that will be used; and
 - 5.3.1.4 How conditions that require corrective action will be addressed.
- 5.3.2 A record of each inspection and of any corrective actions taken in accordance with Parts 6 and 8 must be retained with the SWPPP for at least three (3) years from the date permit coverage expires or is terminated.
- 5.3.3 If a permittee is invoking the exception for inactive and unstaffed sites relating to routine facility inspections and quarterly visual assessments, the permittee must include in the SWPPP the information to support this claim as required by Parts 6.1.3 and 6.2.3.

5.4 Monitoring.

- 5.4.1 The SWPPP must document the procedures for performing facility monitoring specified by this permit in Part 7, and where necessary, taking corrective actions, in accordance with Part 8. At a minimum, the SWPPP must document the following:
 - 5.4.1.1 Person(s) or position of person(s) responsible for conducting facility monitoring;
 - 5.4.1.2 Schedules to be followed for conducting monitoring;
 - 5.4.1.3 Any monitoring checklist or form that will be used; and
 - 5.4.1.4 How conditions that require corrective action will be addressed.
- 5.4.2 A record of each monitoring event and of any corrective actions taken in accordance with Parts 7 and 8 must be retained with the SWPPP for at least three (3) years from the date permit coverage expires or is terminated.

5.5 Documentation of Permit Eligibility Related to a Total Maximum Daily Load.

The SWPPP must include documentation supporting determination of permit eligibility with regards to waters that have an EPA-established or approved TMDL. See Part 3.2.2 for additional information to determine permit eligibility related to a TMDL. The SWPPP must include the following:

- 5.5.1 Identification of whether the discharge is identified, either specifically or generally, in an EPA – established or approved TMDL and any associated allocations, requirements, and assumptions identified for the discharge;
- 5.5.2 Summaries of consultation with state or federal TMDL authorities on consistency of SWPPP conditions with the approved TMDL; and
- 5.5.3 Measures taken by the permittee to ensure that the discharge of pollutants from the facility is consistent with the assumptions and requirements of the EPA – established or approved TMDL, including any specific wasteload or load allocation that has been established that would apply to the discharge.

5.6 Maintaining and Updated SWPPP.

- 5.6.1 A permittee must modify the SWPPP whenever necessary to address any of the triggering conditions for corrective action in Part 8.1 and to ensure that they do not reoccur, or to reflect changes implemented when a review following the triggering conditions in Part 8.2 indicates that changes to the control measures are necessary to meet the effluent limits in this permit. Changes to the SWPPP document must be made in accordance with the corrective action deadlines in Parts 8.3 and 8.4, and must be signed and dated in accordance with Appendix A, Subsection 1.12.
- 5.6.2 A permittee must modify the SWPPP if inspections or investigations by facility staff or by state, federal, local or tribal officials determine that SWPPP modifications are necessary for compliance with this permit.
- 5.6.3 A permittee must modify the SWPPP to reflect any revisions to applicable state, federal, local or tribal law or regulations that affect the control measures implemented at the facility.
- 5.6.4 A permittee must keep a log showing dates, name of person authorizing the change, and a brief summary of changes for all significant SWPPP modifications (e.g. adding a new control measure, changes in facility layout or design, or significant storm events that cause for replacement of control measures).
- 5.6.5 A permittee must amend the SWPPP within thirty (30) calendar days whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to waters of the U.S., or if the SWPPP proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified in the SWPPP, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. The SWPPP must be updated at least annually.

5.7 SWPPP Availability.

A permittee must retain a copy of the current SWPPP required by this permit at the facility, and it must be immediately available to DEC or EPA at the time of an onsite inspection or upon request. If the facility is inactive the SWPPP must be retained at a readily available location or the office of the operator. DEC may provide access to portions of the SWPPP to a member of the public upon request. Confidential Business Information (CBI) may be withheld from the public, but may not be withheld from those staff cleared for CBI review within DEC, EPA, USFWS, or NMFS.

DEC encourages permittees to post their SWPPP online and provide the website address on the NOI (the SWPPP does not need to be reposted on the internet each time it is updated).

5.8 Additional Documentation Requirements.

A permittee is required to keep up-to-date copies of the following inspection, monitoring, corrective action, additional documentation, and certification records with the SWPPP:

- 5.8.1 A copy of the NOI submitted to DEC along with any correspondence exchanged between the permittee and DEC specific to coverage under this permit;
- 5.8.2 A copy of the acknowledgment letter the permittee receives from DEC or eNOI system assigning the permittees permit tracking number;
- 5.8.3 A copy of this permit (an electronic copy easily available to SWPPP personnel is also acceptable);
- 5.8.4 Descriptions and dates of any incidences of significant spills, leaks, or other releases that resulted in discharges of pollutants to waters of the U.S., through storm water or otherwise; the circumstances leading to the release and actions taken in response to the release; and measures taken to prevent the recurrence of such releases (see Part 4.2.4);
- 5.8.5 Records of employee training, including date training received (see Part 4.2.9);
- 5.8.6 Documentation of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules (see Part 4.2.3);
- 5.8.7 Log of SWPPP modifications;
- 5.8.8 All inspection reports, including the Routine Facility Inspection Reports (see Part 6.1), the Quarterly Visual Assessment Reports (see Part 6.2), and the Comprehensive Site Inspection Reports (see Part 6.3);

- 5.8.9 Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (e.g., adverse weather or it was impracticable to collect samples within the first 30 minutes of discharge from a measurable storm event) (see Parts 6.2.1, 7.1.4, and 7.2.1.2);
- 5.8.10 Description of any corrective action taken at the permittees site shall be listed in a corrective action log, including triggering event and dates when problems were discovered and modifications occurred (see Part 8.4);
- 5.8.11 Documentation of any benchmark exceedances and how they were responded to, including either (1) corrective action taken, (2) a finding that the exceedence was due to natural background pollutant levels, or (3) a finding that no further pollutant reductions were technologically available and economically practicable and achievable in light of best industry practice consistent with Part 7.2.1.2;
- 5.8.12 Documentation of any effluent limitation exceedances and how they were responded to, including any corrective action;
- 5.8.13 Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if the permittee discharges directly to impaired waters, and that such pollutants were not detected in their discharge or were solely attributable to natural background sources (see Part 7.2.3.2); and
- 5.8.14 Documentation to support the permittees claim that the permittees facility has changed its status from active to inactive and unstaffed with respect to the requirements to conduct routine facility inspections (see Part 6.1.3), quarterly visual assessments (see Part 6.2.3), and/or benchmark monitoring (see Part 7.2.1.6).

6. Inspections.

A permittee must conduct the inspections in Parts 6.1, 6.2, and 6.3 at their facility.

6.1 Routine Facility Inspections.

6.1.1 Routine Facility Inspection Procedures.

During normal facility operating hours, the permittee must conduct inspections of areas of the facility covered by the requirements in this permit, including the following:

- Areas where industrial materials or activities are exposed to storm water.
- Areas identified in the SWPPP and those that are potential pollutant sources (see Part 5.1.3).
- Areas where spills and leaks have occurred in the past 3 years.
- Discharge points.
- Control measures used to comply with the effluent limits contained in this permit.

Inspections must be conducted at least quarterly (i.e., once each permit quarter), or in some instances more frequently (e.g., monthly), as appropriate. Increased frequency may be appropriate for some types of equipment, processes and stormwater control measures, or areas of the facility with significant activities and materials exposed to stormwater. At least one of the routine inspections must be conducted during a period when a stormwater discharge is occurring (in arid areas of the state this requirement is to be met as practicable). The permittee must specify the relevant inspection schedules in their SWPPP document as required in Part 5.2.6.

Inspections must be performed by qualified personnel (as defined in Appendix C) with at least one member of the permittee's stormwater pollution prevention team participating. Inspector(s) must consider the results of visual and analytical monitoring (if any) for the past year when planning and conducting inspections.

During the inspection the inspectors must examine or look out for the following:

- Industrial materials, residue or trash that may have or could come into contact with stormwater.
- Leaks or spills from industrial equipment, drums, tanks and other containers.
- Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site.
- Tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas.
- Control measures needing replacement, maintenance or repair.

During an inspection occurring during a stormwater discharge, control measures implemented to comply with effluent limits must be observed to ensure they are functioning correctly. Discharge points, as defined in Appendix C, must also be observed during this inspection. If such discharge locations are inaccessible, nearby downstream locations must be inspected.

6.1.2 Routine Facility Inspection Documentation.

A permittee must document the findings of each routine facility inspection performed and maintain this documentation onsite with the SWPPP as required in Part 5.8. The permittee is not required to submit their routine facility inspection findings to DEC, unless specifically requested to do so. At a minimum, the permittees documentation of each routine facility inspection must include:

- The inspection date and time;
- The name(s) and signature(s) of the inspector(s);
- Weather information;
- All observations relating to the implementation of control measures at the facility, including:
 - A description of any discharges occurring at the time of the inspection;

- Any previously unidentified discharges of pollutants from the site;
- Any evidence of, or the potential for, pollutants entering the drainage system;
- Observations regarding the physical condition of and around all outfalls including any flow dissipation devices, and evidence of pollutants in discharges and/or the receiving water;
- Any control measures needing maintenance, repairs; or replacement;
- Any additional control measures needed to comply with the permit requirements; and
- Any incidents of noncompliance observed.

The inspection report must be signed and certified in accordance with Appendix A, Subsection 1.12 of the permit.

Any corrective action required as a result of a routine facility inspection must be performed consistent with Part 8 of this permit.

6.1.3 **Exceptions to Routine Facility Inspections.**

Inactive and Unstaffed Sites: The requirement to conduct routine facility inspections on a quarterly basis does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to storm water. Such a facility is only required to conduct an annual comprehensive site inspection in accordance with the requirements of Part 6.3. To invoke this exception, the permittee must maintain a statement in the SWPPP pursuant to Part 5.2.6.2 indicating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to precipitation, in accordance with the substantive requirements in 40 CFR 122.26(g)(4)(iii). The statement must be signed and certified in accordance with Appendix A, Subsection 1.12. If circumstances change and industrial materials or activities become exposed to storm water or the facility becomes active and/or staffed, this exception no longer applies and the permittee must immediately resume quarterly facility inspections. If the permittee is not qualified for this exception at the time of authorization under this permit, but during the permit term becomes qualified because their facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to storm water, then the permittee must include the same signed and certified statement as above and retain it with the facility records pursuant to Part 5.8.

Inactive and unstaffed facilities or those undergoing winter shutdown covered under Sectors G (Metal Mining), H (Coal Mines and Coal Mining-Related Facilities), and J (Non-Metallic Mineral Mining and Dressing), are not required to meet the “no industrial materials or activities exposed to storm water” standard to be eligible for this exception from routine inspections, consistent with the requirements established in Parts 11.G.8.4, 11.H.8.1, and 11.J.8.1.

6.2 Quarterly Visual Assessment of Storm Water Discharges.

6.2.1 Quarterly Visual Assessment Procedures.

Once each calendar quarter for the entire permit term, the permittee must collect a storm water sample from each outfall (except as noted in Part 6.2.3) and conduct a visual assessment of each of these samples. These samples are not required to be collected consistent with 40 CFR Part 136 procedures but should be collected in such a manner that the samples are representative of the storm water discharge. If no discharge occurs during the quarterly visual assessment period, the permittee must still report no discharge for this monitoring period and follow the requirements of Part 7.1.6.

The visual assessment must be made:

- Of a sample in a clean, clear glass, or plastic container, and examined in a well-lit area;
- On samples collected within the first 30 minutes of an actual discharge from a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample must be collected as soon as practicable after the first 30 minutes and the permittee must document why it was not possible to take samples within the first 30 minutes. In the case of snowmelt, samples must be taken during a period with a measurable discharge from the permittees site; and
- For storm events, on discharges that occur at least 72 hours (3 days) from the previous discharge. The 72-hour (3-day) storm interval does not apply if the permittee documents that less than a 72-hour (3-day) interval is representative for local storm events during the sampling period.

A permittee must visually inspect the sample for the following water quality characteristics:

- Color;
- Odor;
- Clarity (diminished);
- Floating solids;
- Settled solids;
- Suspended solids;
- Foam;
- Oil sheen; and
- Other obvious indicators of storm water pollution.

6.2.2 Quarterly Visual Assessment Documentation.

A permittee must document the results of their visual assessments and maintain this documentation onsite with the SWPPP as required in Part 6.2.3. The permittee is not required

to submit their visual assessment findings to DEC, unless specifically requested to do so. At a minimum, the permittees documentation of the visual assessment must include:

- Sample location(s)
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the storm water discharge;
- Probable sources of any observed storm water contamination, and
- If applicable, why it was not possible to take samples within the first 30 minutes.
- Quarterly Visual Assessment Documentation must be signed and certified in accordance with Appendix A, Subsection 1.12 of the permit.

Any corrective action required as a result of a quarterly visual assessment must be performed consistent with Part 8 of this permit.

6.2.3 **Exceptions to Quarterly Visual Assessments.**

Adverse Weather Conditions: When adverse weather conditions prevent the collection of samples during the quarter, the permittee must take a substitute sample during the next qualifying storm event. Documentation of the rationale for no visual assessment for the quarter must be included with the SWPPP records as described in Part 5.8. Adverse conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, or electrical storms, or situations that otherwise make sampling impractical, such as drought or extended frozen conditions.

Climates with Irregular Storm Water Runoff: If the facility is located in an area where limited rainfall occurs during many parts of the year (e.g., arid or semi-arid climate) or in an area where freezing conditions exist that prevent runoff from occurring for extended periods, then the samples for the quarterly visual assessments may be distributed during seasons when precipitation runoff occurs. (See Part 7.1.6)

Areas Subject to Snow: In areas subject to snow, at least one quarterly visual assessment must capture snowmelt discharge, as described in Part 7.1.3, taking into account the exception described above for climates with irregular storm water runoff.

Inactive and Unstaffed Sites: The requirement for a quarterly visual assessment does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to storm water. To invoke this exception, the permittee must maintain a statement in the SWPPP as required in Part 5.2.6.2 indicating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to precipitation, in accordance with the substantive requirements in 40 CFR 122.26(g)(4)(iii). The statement must be signed and certified in accordance with Appendix A, Subsection 1.12. If circumstances

change and industrial materials or activities become exposed to storm water or the facility becomes active and/or staffed, this exception no longer applies and the permittee must immediately resume quarterly visual assessments. If the permittee is not qualified for this exception at the time they are authorized under this permit, but during the permit term they become qualified because their facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to storm water, then the permittee must include the same signed and certified statement as above and retain it with their records pursuant to Part 5.8.

Inactive and unstaffed facilities covered under Sectors G (Metal Mining), H (Coal Mines and Coal Mining-Related Facilities), and J (Non-Metallic Mineral Mining and Dressing), are not required to meet the “no industrial materials or activities exposed to storm water” standard to be eligible for this exception from quarterly visual assessment, consistent with the requirements established in Parts 11.G.8.4, 11.H.8.1, and 11.J.8.1.

Substantially Identical Outfalls: If a permittees facility has two or more outfalls that discharge substantially identical effluents, as documented in Part 5.2.6.2, the permittee may conduct quarterly visual assessments of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s) provided that the permittee performs visual assessments on a rotating basis of each substantially identical outfall throughout the period of coverage under this permit.

If storm water contamination is identified through visual assessment performed at a substantially identical outfall, the permittee must assess and modify their control measures as appropriate for each outfall represented by the monitored outfall.

6.3 Comprehensive Site Inspections.

6.3.1 Comprehensive Site Inspection Procedures.

A permittee must conduct annual comprehensive site inspections while covered under this permit. Annual, as defined in this Part, means once during each of the following inspection periods beginning with the period the permittee is authorized to discharge under this permit:

Year 1:	Permit Effective Date	–	December 31, 2015
Year 2:	January 1, 2016	–	December 31, 2016
Year 3:	January 1, 2017	–	December 31, 2017
Year 4:	January 1, 2018	–	December 31, 2018
Year 5:	January 1, 2019	–	Permit Expiration Date ¹
Note:			
1. Unless the permit is extended to or past December 31, 2019, in which case, December 31, 2019.			

A permittee is waived from having to perform a comprehensive site inspection for an inspection period, as defined above, if authorization to discharge is obtained less than three months before the end of that inspection period.

Should a permittees coverage be administratively continued after the expiration date of this permit, the permittee must continue to perform these inspections annually until they are no longer covered.

Comprehensive site inspections must be conducted by qualified personnel with at least one member of the storm water pollution prevention team participating in the comprehensive site inspections.

The comprehensive site inspections must cover all areas of the facility affected by the requirements in this permit, including the areas identified in the SWPPP as potential pollutant sources (see Part 5.2.4) where industrial materials or activities are exposed to storm water, any areas where control measures are used to comply with the effluent limits in Part 3, and areas where spills and leaks have occurred in the past 3 years. If the permittee has documented in the SWPPP that some industrial sector sites within the facility have no exposure to storm water the comprehensive site inspection should include those sector areas as well to verify no exposure still exists. The inspections must also include a review of monitoring data collected in accordance with Part 7.2. Inspectors must use the results of the past year's visual and analytical monitoring when planning and conducting inspections. Inspectors must examine the following:

- Industrial materials, residue, or trash that may have or could come into contact with storm water;
- Leaks or spills from industrial equipment, drums, tanks, and other containers;
- Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site;
- Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas; and
- Control measures needing replacement, maintenance, or repair.

Storm water control measures required by this permit must be observed to ensure that they are functioning correctly. If discharge locations are inaccessible, nearby downstream locations must be inspected.

The annual comprehensive site inspection may also be used as one of the routine inspections, as long as all components of both types of inspections are included.

6.3.2 Comprehensive Site Inspection Documentation.

A permittee must document the findings of each comprehensive site inspection and maintain this documentation onsite with the SWPPP as required in Part 5.8. In addition, the permittee must submit this documentation in an annual report as required in Part 9.2. At a minimum, the

permittees documentation of the comprehensive site inspection must include (see the Annual Reporting Form included as Appendix F):

- The date of the inspection;
- The name(s) and title(s) of the personnel making the inspection;
- Findings from the examination of areas of the facility identified in Part 6.3.1 including inspections of the individual industrial sectors within a facility under a single permit which have been noted as having no exposure in the SWPPP;
- All observations relating to the implementation of the permittees control measures including:
 - previously unidentified discharges from the site,
 - previously unidentified pollutants in existing discharges,
 - evidence of, or the potential for, pollutants entering the drainage system;
 - evidence of pollutants discharging to receiving waters at all facility outfall(s), and the condition of and around the outfall, including flow dissipation measures to prevent scouring, and
 - additional control measures needed to address any conditions requiring corrective action identified during the inspection.
- Any required revisions to the SWPPP resulting from the inspection;
- Any incidents of noncompliance observed or a certification stating the facility is in compliance with this permit (if there is no noncompliance); and
- A statement, signed and certified in accordance with Appendix A, Subsection 1.12 of the permit.

Any corrective action required as a result of the comprehensive site inspection must be performed consistent with Part 8 of this permit.

7. Monitoring.

A permittee must collect and analyze storm water samples and document monitoring activities consistent with the procedures described in Part 7 and Appendix A, Subsections 3.0, and any additional sector-specific requirements in Part 11. Refer to Part 9 for reporting and recordkeeping requirements.

7.1 Monitoring Procedures.

7.1.1 Monitored Outfalls.

Applicable monitoring requirements apply to each outfall authorized by this permit, except as otherwise exempt from monitoring as a “substantially identical outfall.” If the permittees facility has two or more outfalls that they believe discharge substantially identical effluents, based on the similarities of the general industrial activities and control measures, exposed materials that may significantly contribute pollutants to storm water, and runoff coefficients of their drainage areas, they may monitor the effluent of just one of the outfalls and report that the results also apply to the substantially identical outfall(s). As required in Part 5.2.6.2, the SWPPP must identify each outfall authorized by this permit and describe the rationale for any substantially identical outfall determinations. The allowance for monitoring only one of the substantially identical outfalls is not applicable to any outfalls with numeric effluent limitations. The permittee is required to monitor each outfall covered by a numeric effluent limit as identified in Part 7.2.2.

7.1.2 Commingled Discharges.

If discharges authorized by this permit commingle with discharges not authorized under this permit, any required sampling of the authorized discharges must be performed at a point before they mix with other waste streams, to the extent practicable.

7.1.3 Measurable Storm Events.

All required monitoring must be performed on a storm event that results in an actual discharge from the facility (“measurable storm event”) that follows the preceding measurable storm event by at least 72 hours (three days). The 72-hour (three-day) storm interval does not apply if the permittee is able to document that less than a 72-hour (three-day) interval is representative for local storm events during the sampling period. In the case of snowmelt, the monitoring must be performed at a time when a measurable discharge occurs at the facility.

For each monitoring event, except snowmelt monitoring, the permittee must identify the date and duration (in hours) of the rainfall event, rainfall total (in inches) for that rainfall event, and time (in days) since the previous measurable storm event. For snowmelt monitoring, the permittee must identify the date of the sampling event.

7.1.4 Sample Type.

A permittee must take a minimum of one grab sample from a discharge resulting from a measurable storm event as described in Part 7.1.3. Samples must be collected within the first 30 minutes of a discharge produced from a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample must be collected as soon as practicable after the first 30 minutes and documentation must be kept with the SWPPP explaining why it was not possible to take samples within the first 30 minutes. In the case of snowmelt, samples must be taken during a period with a measurable discharge.

7.1.5 Adverse Weather Conditions.

When adverse weather conditions as described in Part 6.2.3 prevent the collection of samples according to the relevant monitoring schedule, the permittee must take a substitute sample during the next qualifying storm event. Adverse weather does not exempt a permittee from having to file a benchmark monitoring report in accordance with their sampling schedule. The permittee must report any failure to monitor as specified in Part 9.1 indicating the basis for not sampling during the usual reporting period.

7.1.6 Climates with Irregular Storm Water Runoff.

If a permittees facility is located in areas where limited rainfall occurs during parts of the year (e.g., arid or semi-arid climates) or in areas where freezing conditions exist that prevent runoff from occurring for extended periods, required monitoring events may be distributed during seasons when precipitation occurs, or when snowmelt results in a measurable discharge from the facility. The permittee must still collect the required number of samples.

7.1.7 Monitoring Periods.

Monitoring requirements in this permit begin in the first full quarter following either January 1, 2015 or the permittees date of discharge authorization, whichever date comes later. If the permittees monitoring is required on a quarterly basis (e.g., benchmark monitoring), the permittee must monitor at least once in each of the following three-month intervals:

- **Quarter 1:** January 1 - March 31;
- **Quarter 2:** April 1 – June 30;
- **Quarter 3:** July 1 – September 30;
- **Quarter 4:** October 1 – December 31.

For example, if permit coverage was obtained on June 2, 2015, then the permittees first monitoring quarter is July 1 - September 30, 2015. This monitoring schedule may be modified in accordance with Part 7.1.6 if the revised schedule is documented with the SWPPP and provided to DEC with the first monitoring report.

7.1.8 Monitoring for Allowable Non-Storm Water Discharges.

The permittee is only required to monitor allowable non-storm water discharges (as delineated in Part 1.2.3) when they are commingled with storm water discharges associated with industrial activity.

7.2 Required Monitoring.

This permit includes four types of required analytical monitoring, one or more of which may apply to the permittees discharge:

- Quarterly benchmark monitoring (see Part 7.2.1)
- Annual effluent limitations guidelines monitoring (see Part 7.2.2);

- Impaired waters monitoring (see Part 7.2.3); and
- Other monitoring as required by DEC (see Part 7.2.4).

When more than one type of monitoring for the same parameter at the same outfall applies (e.g., total suspended solids once per year for an effluent limit and once per quarter for benchmark monitoring at a given outfall), the permittee may use a single sample to satisfy both monitoring requirements (i.e., one sample satisfying both the annual effluent limit sample and one of the four quarterly benchmark monitoring samples).

All required monitoring must be conducted in accordance with the procedures described in Appendix A, Subsection 3.0.

7.2.1 Benchmark Monitoring.

This permit stipulates pollutant benchmark concentrations that may be applicable to certain sectors / subsectors. Benchmark monitoring data are primarily for the permittees use to determine the overall effectiveness of the permittees control measures and to assist the permittee in knowing when additional corrective action(s) may be necessary to comply with the effluent limitations in Part 4.

The benchmark concentrations are not effluent limitations; a benchmark exceedance, therefore, is not a permit violation. However, if corrective action is required as a result of a benchmark exceedance, failure to conduct required corrective action is a permit violation.

At the permittee's discretion, more than four samples may be taken during separate runoff events and used to determine the average benchmark parameter concentration for facility discharges. These extra samples may be taken in any quarter of the permittees' choice.

7.2.1.1 *Applicability of Benchmark Monitoring.* A permittee must monitor for any benchmark parameters specified for the industrial sector(s), both primary industrial activity and any co-located industrial activities, applicable to the permittees discharge. The industry-specific benchmark concentrations are listed in the sector-specific sections of Part 11. If the facility is in one of the industrial sectors subject to benchmark concentrations that are hardness-dependent, the permittee is required to submit to DEC with their first benchmark report a hardness value, established consistent with the procedures in Appendix E, which is representative of the receiving water.

Samples must be analyzed consistent with 40 CFR Part 136 analytical methods and using test procedures with quantitation limits at or below benchmark values for all benchmark parameters for which the permittee is required to sample.

7.2.1.2 *Benchmark Monitoring Schedule.* Benchmark monitoring must be conducted quarterly, as identified in Part 7.1.7, for the permittees first four full quarters of permit coverage commencing no earlier than March 1, 2015. Facilities in climates with irregular storm water runoff, as described in Part 7.1.6, may modify this quarterly schedule provided that

this revised schedule is reported to DEC when the first benchmark sample is collected and reported, and that this revised schedule is kept with the facility's SWPPP as specified in Part 5.2.6. When conditions prevent the obtaining of four samples in four consecutive quarters, continue monitoring until achieving the four samples required for calculating the benchmark monitoring average.

7.2.1.3 Data Not Exceeding Benchmarks. After collection of four quarterly samples, if the average of the four monitoring values for any parameter does not exceed the benchmark, the permittee has fulfilled their monitoring requirements for that parameter for the permit term. For averaging purposes, use a value of zero for any individual sample parameter, analyzed using procedures consistent with Part 7.2.1.1, which is determined to be less than the method detection limit. For sample values that fall between the method detection level and the quantitation limit (i.e., a confirmed detection but below the level that can be reliably quantified), use a value halfway between zero and the quantitation limit.

7.2.1.4 Data Exceeding Benchmarks. After collection of four quarterly samples, if the average of the four monitoring values for any parameter exceeds the benchmark, the permittee must, in accordance with Part 8.2, review the selection, design, installation, and implementation of their control measures to determine if modifications are necessary to meet the benchmarks in this permit, and either:

- Make the necessary modifications and continue quarterly monitoring until the permittee has completed four additional quarters of monitoring for which the average does not exceed the benchmark; or
- Make a determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to meet the technology-based effluent limits or are necessary to meet the water-quality-based effluent limitations in Part 3 of this permit, in which case the permittee must continue monitoring once per year. The permittee must also document their rationale for concluding that no further pollutant reductions are achievable, and retain all records related to this documentation with their SWPPP. The permittee must also notify DEC of this determination in their next benchmark monitoring report.

In accordance with Part 8.2, the permittee must review its control measures and perform any required corrective action immediately (or document why no corrective action is required), without waiting for the full four quarters of monitoring data, if an exceedance of the four quarter average is mathematically certain. If after modifying the permittees control measures and conducting four additional quarters of monitoring, their average still exceeds the benchmark (or if an exceedance of the benchmark by the four quarter average is mathematically certain prior to conducting the full four additional quarters of monitoring), the permittee must again review its control measures and take one of the two actions above.

7.2.1.5 ***Natural Background Pollutant Levels.*** Following the first four quarters of benchmark monitoring (or sooner if the exceedance is triggered by less than four quarters of data, see above), if the average concentration of a pollutant exceeds a benchmark value, and the permittee determines that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background, the permittee is not required to perform corrective action or additional benchmark monitoring provided that:

- The average concentration of the permittees benchmark monitoring results is less than or equal to the concentration of that pollutant in the natural background;
- The permittee must document and maintain with the SWPPP, as required in Part 5.8, the supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background pollutant levels. The permittee must include in their supporting rationale any data previously collected by the permittee or others (including literature studies) that describe the levels of natural background pollutants in their storm water discharge; and
- The permittee must notify DEC on their final quarterly benchmark monitoring report that the benchmark exceedances are attributable solely to natural background pollutant levels.

Natural background pollutants include those substances that are naturally occurring in soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity at the facility, or pollutants in run-on from neighboring sources which are not naturally occurring.

7.2.1.6 ***Exception for Inactive and Unstaffed Sites⁶***. The requirement for benchmark monitoring does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to storm water. To invoke this exception, the permittee must do the following:

- Maintain a statement onsite with the SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to storm water in accordance with the substantive requirements in 40 CFR 122.26(g) and sign and certify the statement in accordance with Appendix A, Subsection 1.12; and
- If circumstances change and industrial materials or activities become exposed to storm water or the facility becomes active and/or staffed, this exception no longer applies and the permittee must immediately begin complying with the applicable benchmark monitoring requirements under Part 7.2 as if they were in their first year of permit coverage. The permittee must indicate in their first benchmark

⁶ This exception has different requirements for Sectors G, H, and J (see Part 11).

monitoring report that their facility has materials or activities exposed to storm water or has become active and/or staffed.

- If the permittee is not qualified for this exception at the time they are authorized under this permit, but during the permit term they become qualified because their facility is inactive and unstaffed, and there are no industrial materials or activities that are exposed to storm water, then the permittee must notify DEC of this change in their next benchmark monitoring report. A permittee may discontinue benchmark monitoring once they have notified DEC, and prepared and signed the certification statement described above concerning their facility's qualification for this special exception.

7.2.2 Effluent Limitations Monitoring.

7.2.2.1 Monitoring Based on Effluent Limitations Guidelines. Table 7-1 identifies the storm water discharges subject to effluent limitation guidelines that are authorized for coverage under this permit. Beginning in the first full quarter following January 1, 2015 or the permittees date of discharge authorization, whichever date comes later, the permittee must monitor once per year at each outfall containing the discharges identified in Table 7-1 for the parameters specified in the sector-specific section of Part 11.

Table 7-1: Required Monitoring for Effluent Limits Based on Effluent Limitations Guidelines

Regulated Activity	Effluent Limit	Monitoring Frequency	Sample Type
Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	See Part 11.A.7	1/year	Grab
Runoff from phosphate fertilizer manufacturing facilities that comes into contact with any raw materials, finished product, by-products or waste products (SIC 2874)	See Part 11.C.4	1/year	Grab
Runoff from asphalt emulsion facilities	See Part 11.D.4	1/year	Grab
Runoff from material storage piles at cement manufacturing facilities	See Part 11.E.5	1/year	Grab
Mine dewatering discharges at crushed stone, construction sand and gravel, or industrial sand mining facilities	See Part 11.J.9	1/year	Grab
Runoff from hazardous waste landfills	See Part 11.K.6	1/year	Grab
Runoff from non-hazardous waste landfills	See Part 11.L.10	1/year	Grab
Runoff from coal storage piles at steam electric generating facilities	See Part 11.O.8	1/year	Grab
Existing and new primary airports with 1,000 or more annual jet departures that discharge wastewater associated with airfield pavement deicing that contains urea commingled with stormwater	See Part 11.S.8	1/year	Grab

7.2.2.2 Substantially Identical Outfalls. A permittee must monitor each outfall discharging runoff from any regulated activity identified in Table 7-1. The substantially identical outfall monitoring provisions are not available for numeric effluent limits monitoring.

7.2.2.3 Follow-up Actions if Discharge Exceeds Numeric Effluent Limit. The permittee must follow-up monitoring within 30 calendar days (or during the next qualifying runoff event, should none occur within 30 days) of implementing corrective action(s) taken pursuant to Part 4 in response to exceedance of a numeric effluent limit contained in this permit. Monitoring must be performed for any pollutant(s) that exceeds the effluent limit. If this follow-up monitoring exceeds the applicable effluent limitation, you must:

- **Submit a Noncompliance Notification Form:** You must submit a Noncompliance Notification Form no later than 30 days after you have received the lab result; and
- **Continue to Monitor:** the permittee must monitor, at least quarterly, until the discharge is in compliance with the effluent limit or until DEC waives the requirement for additional monitoring.

7.2.3 Discharges to Impaired Waters Monitoring.

7.2.3.1 Permittees Required to Monitor Discharges to Impaired Waters. If a permittee discharges to an impaired water, the permittee must monitor for all pollutants for which the waterbody is impaired and for which a standard analytical method exists (see 40 CFR Part 136).

If the pollutant for which the waterbody is impaired is suspended solids, turbidity or sediment/sedimentation, the permittee must monitor for Total Suspended Solids (TSS) and turbidity. If the pollutant for which the waterbody is impaired is expressed in the form of an indicator or surrogate pollutant, the permittee must monitor for that indicator or surrogate pollutant. No monitoring is required when a waterbody's biological communities are impaired but no pollutant, including indicator or surrogate pollutants, is specified as causing the impairment, or when a waterbody's impairment is related to hydrologic modifications, impaired hydrology, or other pollutant.

7.2.3.2 Impaired Waters Monitoring Schedule.

Discharges to impaired waters without an EPA approved or established TMDL:

Beginning in the first full calendar quarter following January 1, 2015 or the permittees date of discharge authorization, whichever date comes later, the permittee must monitor once per year at each outfall (except substantially identical outfalls) discharging storm water to impaired waters without an EPA approved or established TMDL. This monitoring requirement does not apply after one year if the pollutant for which the waterbody is impaired is not detected above natural background levels in their storm water discharge, and the permittee must document, as required in Part 5.8 (Additional Documentation Requirements), that this pollutant is not expected to be present above natural background levels in the permittees discharge.

If the pollutant for which the water is impaired is not present and not expected to be present in the permittee's discharge, or it is present but the permittee has determined that

its presence is caused solely by natural background sources, they should include a notification to this effect in their first monitoring report, after which they may discontinue annual monitoring. To support a determination that the pollutant's presence is caused solely by natural background sources, the permittee must keep the following documentation with their SWPPP records:

- An explanation of why the permittee believes that the presence of the pollutant causing the impairment in their discharge is not related to the activities at their facility; and
- Data and/or studies that tie the presence of the pollutant causing the impairment in their discharge to natural background sources in the watershed.

Natural background pollutants include those substances that are naturally occurring as a result of native soils, vegetation, wildlife, or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on the site, or pollutants in run-on from neighboring sources which are not naturally occurring.

Discharges to impaired waters with an EPA approved or established TMDL WLA: For storm water discharges to waters for which there is an EPA approved or established TMDL waste load allocation (WLA), the permittee is not required to monitor for the pollutant for which the TMDL was written unless DEC informs the permittee, upon examination of the applicable TMDL and/or WLA, that they are subject to such a requirement consistent with the assumptions of the applicable TMDL and/or WLA. DEC's notice will include specifications on which pollutant to monitor and the required monitoring frequency during the first year of permit coverage. Following the first year of monitoring:

- If the TMDL pollutant is not detected in any of the permittees first year samples, they may discontinue further sampling, unless the TMDL has specific instructions to the contrary, in which case the permittee must follow those instructions. The permittee must keep records of this finding onsite with their SWPPP.
- If the permittee detects the presence of the pollutant causing the impairment in their storm water discharge for any of the samples collected in the first year, the permittee must continue monitoring annually throughout the term of this permit, unless the TMDL specifies more frequent monitoring, in which case the permittee must follow the TMDL requirements.

7.2.4 Additional Monitoring Required by DEC.

DEC may notify the permittee of additional discharge monitoring requirements. Any such notice will briefly state the reasons for the monitoring, locations, and parameters to be monitored, frequency and period of monitoring, sample types, and reporting requirements.

8. Corrective Actions.

8.1 Conditions Requiring Review and Revision to Eliminate Problem.

If any of the following conditions occur, the permittee must review and revise the selection, design, installation, and implementation of their control measures to ensure that the condition is eliminated and will not be repeated in the future:

- 8.1.1 An unauthorized release or discharge (e.g., spill, leak, or discharge of non-storm water not authorized by this or another APDES permit) occurs at the permittees facility;
- 8.1.2 A discharge violates a numeric effluent limit;
- 8.1.3 The permittee becomes aware, or DEC determines, that the permittee's control measures are not stringent enough for the discharge to meet a WQS in the receiving water;
- 8.1.4 An inspection or evaluation of the permittees facility by an DEC or EPA official determines that modifications to the control measures are necessary to meet the non-numeric effluent limits in this permit; or
- 8.1.5 The permittee finds in their routine facility inspection, quarterly visual assessment, or comprehensive site inspection that their control measures are not being properly operated and maintained.

8.2 Conditions Requiring Review to Determine if Modifications Are Necessary.

If any of the following conditions occur, the permittee must review the selection, design, installation, and implementation of their control measures to determine if modifications are necessary to meet the effluent limits in this permit:

- 8.2.1 Construction or a change in design, operation, or maintenance at a permittees facility significantly changes the nature of pollutants discharged in storm water from their facility, or significantly increases the quantity of pollutants discharged; or
- 8.2.2 The average of four quarterly sampling results exceeds an applicable benchmark. If less than four benchmark samples have been taken, but the results are such that an exceedence of the four quarter average is mathematically certain (i.e., if the sum of quarterly sample results to date is more than four times the benchmark level) this is considered a benchmark exceedence, triggering this review.

8.3 Corrective Action Deadlines.

A permittee must document their discovery of any of the conditions listed in Parts 8.1 and 8.2 within 24 hours of making such discovery. Subsequently, within 14 days of such discovery, the permittee must document any corrective action(s) to be taken to eliminate or further investigate the deficiency, or if no corrective action is needed, the basis for that determination. Specific documentation required within 24 hours and 14 days is detailed in Part 8.4. If a permittee determines that changes are necessary following

their review, any modifications to their control measures must be made before the next storm event if possible, or as soon as practicable following that storm event. These time intervals are not grace periods, but are schedules considered reasonable for documenting a permittees findings and for making repairs and improvements. They are included in this permit to ensure that the conditions prompting the need for these repairs and improvements are not allowed to persist indefinitely.

8.4 Corrective Action Report.

- 8.4.1 Within 24 hours of discovery of any condition listed in Parts 8.1 and 8.2, the permittee must document the following information (i.e., questions 3-5 of the Corrective Actions section in the Annual Reporting Form, provided in Appendix F):
 - 8.4.1.1 Identification of the condition triggering the need for corrective action review;
 - 8.4.1.2 Description of the problem identified; and
 - 8.4.1.3 Date the problem was identified.
- 8.4.2 Within 14 days of discovery of any condition listed in Parts 8.1 and 8.2, the permittee must document the following information (i.e., questions 7-11 of the Corrective Actions section in the Annual Reporting Form, provided in Appendix F):
 - 8.4.2.1 Summary of corrective action taken or to be taken (or, for triggering events identified in Part 8.2 where the permittee determines that corrective action is not necessary, the basis for this determination);
 - 8.4.2.2 Notice of whether SWPPP modifications are required as a result of this discovery or corrective action;
 - 8.4.2.3 Date corrective action initiated; and
 - 8.4.2.4 Date corrective action completed or expected to be completed.
- 8.4.3 A permittee must submit this documentation in an annual report as required in Part 9.2 and retain a copy onsite with the SWPPP as required in Part 5.8.

8.5 Effect of Corrective Action.

If the event triggering the review is a permit violation (e.g., non-compliance with an effluent limit), it must be documented using the Noncompliance Notification Form (see <http://dec.alaska.gov/water/Compliance/permittee.html>). Furthermore, correcting it does not remove the original violation. Additionally, failing to take corrective action in accordance with this section is an additional permit violation.

8.6 Substantially Identical Outfalls.

If the event triggering corrective action is linked to an outfall that represents other substantially identical outfalls, the permittees review must assess the need for corrective action for each outfall represented by the outfall that triggered the review. Any necessary changes to control measures that affect these other outfalls must also be made before the next storm event if possible, or as soon as practicable following that storm event.

9. Reporting and Recordkeeping.

9.1 Reporting Monitoring Data to DEC.

All monitoring data collected pursuant to Parts 7.2 and 7.2.2.3 must be submitted to DEC no later than 30 days (email date or postmark date) after the permittee has received the complete laboratory results for all monitored outfalls for the reporting period. Paper reporting forms must be submitted by the deadline to the appropriate address identified in Part 9.6. DEC requires the use of the MSGP discharge monitoring report (MDMR) as provided in Appendix F.

For benchmark monitoring, note that the permittee is required to submit sampling results to DEC no later than 30 days after receiving laboratory results for each quarter that are required to collect benchmark samples, in accordance with Part 7.2.1.2. If a permittee collects multiple samples in a single quarter (e.g., due to adverse weather conditions, climates with irregular storm water runoff, or areas subject to snow), they are required to submit all sampling results to DEC within 30 days of receiving the laboratory results. If no discharge occurs during the benchmark monitoring period, the permittee must still report no discharge for this monitoring period.

9.2 Annual Report.

A permittee must submit an annual report to DEC that includes the findings from their Part 6.3 comprehensive site inspection and any corrective action documentation as required in Part 8.4. If corrective action is not yet completed at the time of submission of this annual report, the permittee must describe the status of any outstanding corrective action(s). In addition to the information required in Parts 8.4 (Corrective Action Report) and 6.3.2 (Comprehensive Site Inspection Documentation), the permittee must include the following information with their annual report:

- Facility name;
- APDES permit tracking number;
- Facility physical address; and
- Contact person name, title, and phone number.

DEC requires the permittee submit this report using the Annual Report provided as Appendix F. The Annual Report may be submitted electronically through the DEC Online Application System (OASys) located at <http://www.dec.alaska.gov/water/oasys/index.html>. By February 15th of the year following the

reporting year, the permittee must submit the annual report to DEC to the address identified in Part 9.6 or via OASys.

9.3 Noncompliance Notification for Numeric Effluent Limits.

If follow-up monitoring pursuant to Part 7.2.2.3 exceeds a numeric effluent limit, the permittee must submit a Noncompliance Notification Form (see <http://dec.alaska.gov/water/Compliance/permittee.html>) to DEC no later than 30 days after they have received their lab results. The permittees report must include the following:

- APDES permit tracking number;
- Facility name, physical address and location;
- Name of receiving water;
- Monitoring data from this and the preceding monitoring event(s);
- An explanation of the situation; what the permittee has done and intend to do (should their corrective actions not yet be complete) to correct the violation; and
- An appropriate contact name and phone number.

9.4 Additional Reporting.

- 9.4.1 A permittee is subject to the standard permit reporting provisions of Appendix A, Subsection 3.0.
- 9.4.2 Where applicable, the permittee must submit, and DEC must receive, the following reports at the appropriate address in Part 9.6. If the facility discharges through an MS4, the permittee must also submit these reports to the MS4 operator (identified pursuant to Part 5.2.3).
- 9.4.2.1 24-hour reporting (see Appendix A, Subsection 3.4) - A permittee must report any noncompliance which may endanger health or the environment. Any information must be provided orally within 24 hours from the time the permittee becomes aware of the circumstances;
- 9.4.2.2 Five (5)-day follow-up reporting to the 24 hour reporting (see Appendix A, Subsection 3.4) - A written submission must also be provided within five days of the time the permittee becomes aware of the circumstances;
- 9.4.2.3 Reportable quantity spills (see Part 4.2.4) - A permittee must provide notification, as required under Part 4.2.4, as soon as they have knowledge of a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity.
- 9.4.3 Where applicable, the permittee must submit, and DEC must receive, the following reports at the appropriate address in Part 9.6:

- 9.4.3.1 Planned changes (see Appendix A, Subsection 2.1) – A Permittee must give notice to DEC as soon as possible of any planned physical alterations or additions to the permitted facility that qualify the facility as a new source or that could significantly change the nature or significantly increase the quantity of pollutants discharged;
- 9.4.3.2 Anticipated noncompliance (see Appendix A, Subsection 2.2) – A Permittee must give advance notice to DEC of any planned changes in the permitted facility or activity which they anticipate will result in noncompliance with permit requirements;
- 9.4.3.3 Transfer of ownership and/or operation – The new permittee must submit a complete and accurate NOI in accordance with the requirements of Appendix F of this permit and by the deadlines specified in Table 2-1;
- 9.4.3.4 Compliance schedules (see Appendix A, Subsection 2.4) – Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit must be submitted no later than 14 days following each schedule date;
- 9.4.3.5 Other noncompliance (see Appendix A, Subsection 3.5) - A permittee must report all instances of noncompliance not reported in their monitoring report (pursuant to Part 9.1), compliance schedule report, or 24-hour report at the time monitoring reports are submitted; and
- 9.4.3.6 Other information (see Appendix A, Subsection 2.5) – A permittee must promptly submit facts or information if they become aware that they failed to submit relevant facts in their NOI, or that they submitted incorrect information in their NOI or in any report.

9.5 Recordkeeping.

A permittee must retain copies of their SWPPP (including any modifications made during the term of this permit), additional documentation requirements pursuant to Part 5.8 (including documentation related to corrective actions taken pursuant to Part 5), all reports and certifications required by this permit, monitoring data, and records of all data used to complete the NOI to be covered by this permit, for a period of at least 3 years from the date that the permittees coverage under this permit expires or is terminated.

9.6 Addresses for Reports.

Notice of Intent, Notice of Intent modification, Notice of Termination, No Exposure Certificate, and SWPPP's should be submitted using DEC's eNOI system (<http://dec.alaska.gov/water/wnpspc/stormwater/APDESeNOI.html>) or sent to the address in Appendix A, Part 1.1.1.

Paper copies of any reports required in Parts 7 through 9, not otherwise submitted electronically via DEC's eNOI system (<http://dec.alaska.gov/water/wnpspc/stormwater/APDESeNOI.html>) must be sent to the address in Appendix A, Part 1.1.2.

9.7 Request for Submittal of Records.

The Department may request copies of all or a portion of the information collected and maintained in the SWPPP. A permittee must provide a response to written request for records to the Department within thirty (30) calendar days of receipt of a written request.

10. Terminating Coverage.

10.1 Submitting a Notice of Termination (NOT).

To terminate permit coverage, a permittee must submit a complete and accurate NOT using the paper NOT form included in Appendix F of this permit, to the address listed in Part 9.6. A permittees authorization to discharge under this permit terminates at midnight of the day that a valid NOT is signed (*If a permittee submits a NOT without meeting one or more of the conditions identified in Part 10.2, then a permittees NOT is not valid.*) The permittee is responsible for meeting the terms of this permit until their authorization is terminated.

10.2 When to Submit a NOT.

A permittee must submit a NOT within 30 calendar days after one or more of the following conditions have been met:

- 10.2.1 A new owner or operator has taken over responsibility for the facility;
- 10.2.2 The permittee has ceased operations at the facility, there are not or no longer will be discharges of storm water associated with industrial activity from the facility, and has already implemented necessary sediment and erosion controls as required by Part 4.2.5;
- 10.2.3 The permittee is a Sector G, H, or J facility and has met the applicable termination requirements; or
- 10.2.4 The permittee has obtained coverage under an individual or alternative general permit for all discharges required to be covered by an APDES permit, unless DEC has required that they obtain such coverage under authority of Part 2.8.1, in which case coverage under this permit will terminate automatically.

11. Sector-Specific Requirements for Industrial Activity.

11. Subpart S – Sector S – Air Transportation.

A permittee must comply with Part 11 sector-specific requirements associated with their primary industrial activity and any co-located industrial activities, as defined in Appendix C. The sector-specific requirements apply to those areas of the permittees facility where those sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

11.S.1 Covered Storm Water Discharges.

The requirements in Subpart S apply to storm water discharges associated with industrial activity from Air Transportation facilities identified by the SIC Codes specified under Sector S in Table D-1 of Appendix D of the permit at primary airports.

11.S.2 Limitation on Coverage.

11.S.2.1 Limitations on Coverage. This permit authorizes storm water discharges from only those portions of the air transportation facility that are involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling and lubrication), equipment cleaning operations or deicing operations.

Note: “deicing” will generally be used to imply both deicing (removing frost, snow or ice) and anti-icing (preventing accumulation of frost, snow or ice) activities, unless specific mention is made regarding anti-icing and/or deicing activities.

11.S.2.2 Prohibition of Non-Storm Water Discharges. (See also Part 1.2.4 and Part 11.S.3) This permit does not authorize the discharge of aircraft, ground vehicle, runway and equipment washwaters; nor the dry weather discharge of deicing chemicals. Such discharges must be covered by separate APDES permit(s). Note that a discharge resulting from snowmelt is not a dry weather discharge.

11.S.3 Multiple Operators at Air Transportation Facilities

Air transportation facilities often have more than one operator who could discharge stormwater associated with industrial activity. Operators include the airport authority and airport tenants, including air passenger or cargo companies, fixed based operators, and other parties who routinely perform industrial activities on airport property.

11.S.3.1 Permit Coverage/Submittal of NOIs. Where an airport transportation facility has multiple industrial operators that discharge stormwater, each individual operator must obtain coverage under an APDES stormwater permit. To obtain coverage under the MSGP, all such operators must meet the eligibility requirements in Part 1.2 and must submit an NOI, per Part 2.2 (or, if appropriate, a no exposure certification per Part 1.3).

11.S.3.2 *MSGP Implementation Responsibilities for Airport Authority and Tenants.* The airport authority, in collaboration with its tenants, may choose to implement certain MSGP requirements on behalf of its tenants in order to increase efficiency and eliminate redundancy or duplication of effort. Options available to the airport authority and its tenants for implementation of MSGP requirements include:

- 11.S.3.2.1 The airport authority performs certain activities on behalf of itself and its tenants and reports on its activities;
- 11.S.3.2.2 Tenants provide the airport authority with relevant inputs about tenants' activities, including deicing chemical usage*, and the airport authority compiles and reports on tenants' and its own activities; or
- 11.S.3.2.3 Tenants independently perform, document and submit required information on their activities.

**Tenants who report their deicing chemical usage to the airport authority and rely on the airport authority to perform monitoring should not check the glycol and urea use box on their NOI forms.*

11.S.3.3 *SWPPP Requirements.* A SWPPP must be developed for all stormwater discharges associated with industrial activity at the airport before submittal of any NOIs. The airport authority, in collaboration with its tenants, may choose to develop a single comprehensive SWPPP, or they may choose to develop individual SWPPP. The comprehensive SWPPP should be developed collaboratively by the airport authority and tenants. If any operator develops a SWPPP for discharges from its own areas of the airport, that SWPPP must be coordinated and integrated with the comprehensive SWPPP. All operators and their separate SWPPP contributions and compliance responsibilities must be clearly identified in the comprehensive SWPPP, which all operators must sign and certify per Part 5.2.7. As applicable, the comprehensive SWPPP must clearly specify the MSGP requirements to be complied with by:

- The airport authority for itself;
- The airport authority on behalf of its tenants;
- Tenants for themselves.

For each activity that an operator (e.g., the airport authority) conducts on behalf of another operator (e.g., a tenant), the comprehensive SWPPP must describe a process for reporting results to the latter operator and for ensuring appropriate follow-up, if necessary, by all affected operators. This is to ensure all actions are taken to correct any potential deficiencies or permit violations. For example, where the airport authority is conducting monitoring for itself and its tenants, the comprehensive SWPPP must identify how the airport authority will share the monitoring results with its tenants, and then follow-up with its tenants where there are any exceedances of benchmarks, effluent limits, or water quality standards. In turn, the comprehensive SWPPP must describe how the tenants will also follow-up to ensure permit compliance. If the airport authority and its tenants choose to use a comprehensive SWPPP, they have one hundred eighty (180) days after the effective date of this permit to develop a comprehensive SWPPP and file the NOI according to Part 2.1.

11.S.3.4 Duty to Comply. All individual operators are responsible for implementing their assigned portion of the comprehensive SWPPP, and operators must ensure that their individual activities do not render another operator's stormwater controls ineffective. In addition, the standard permit conditions found in Appendix A apply to each individual operator, including 1.2 Duty to Comply (which states, in part, "A permittee [each individual operator] shall comply with all conditions of the permittee's APDES permit."). For multiple operators at an airport this means that each individual operator remains responsible for ensuring all requirements of its own MSGP are met regardless of whether the comprehensive SWPPP allocates the actual implementation of any of those responsibilities to another entity. That is, the failure of the entity allocated responsibility in the SWPPP to implement an MSGP requirement on behalf of other operators does not negate the other operators' ultimate liability.

11.S.4 Additional Technology-Based Effluent Limits.

11.S.4.1 Good Housekeeping Measures. (See also Part 4.2.2) Implement control measures (as described in 11.S.4.1.1 through 11.S.4.1.7—each list is not exclusive) where determined to be practicable and that accommodate considerations of safety, space, operational constraints, and flight considerations.

11.S.4.1.1 Aircraft, Ground Vehicle and Equipment Maintenance Areas. Minimize the contamination of storm water runoff from all areas used for aircraft, ground vehicle and equipment maintenance (including the maintenance conducted on the terminal apron and in dedicated hangers). Consider the following control measures: performing maintenance activities indoors; maintaining an organized inventory of material used in the maintenance areas; draining all parts of fluids prior to disposal; prohibiting the practice of hosing down the apron or hanger floor; using dry cleanup methods; and collecting the storm water runoff from the maintenance area and providing treatment or recycling.

- 11.S.4.1.2 Aircraft, Ground Vehicle and Equipment Cleaning Areas.* Clearly demarcate these areas on the ground using signage or other appropriate means. Minimize the contamination of storm water runoff from cleaning areas.
- 11.S.4.1.3 Aircraft, Ground Vehicle and Equipment Storage Areas.* Store all aircraft, ground vehicles and equipment awaiting maintenance in designated areas only and minimize the contamination of storm water runoff from these storage areas. Consider the following control measures, including any BMPs: store aircraft and ground vehicles indoors; use drip pans for the collection of fluid leaks; and perimeter drains, dikes or berms surrounding the storage areas.
- 11.S.4.1.4 Material Storage Areas.* Maintain the vessels of stored materials (e.g., used oils, hydraulic fluids, spent solvents, and waste aircraft fuel) in good condition, to prevent or minimize contamination of storm water. Also plainly label the vessels (e.g., “used oil,” “Contaminated Jet A,” etc.). Minimize contamination of precipitation/runoff from these areas. Consider the following control measures: store materials indoors; store waste materials in a centralized location; and install berms/dikes around storage areas.
- 11.S.4.1.5 Airport Fuel System and Fueling Areas.* Minimize the discharge of fuel to the storm sewer/surface waters resulting from fuel servicing activities or other operations conducted in support of the airport fuel system. Consider the following control measures: implement spill and overflow practices; use only dry cleanup methods; and collect storm water runoff.
- 11.S.4.1.6 Source Reduction.* Minimize, and where practicable, eliminate the use of urea and glycol-based deicing chemicals, in order to reduce the aggregate amount of deicing chemicals used and/or lessen the environmental impact. Chemical options to replace ethylene glycol, propylene glycol and urea include: potassium acetate; magnesium acetate; calcium acetate; and anhydrous sodium acetate.
- *Runway Deicing Operation:* Minimize contamination of storm water runoff from runways as a result of deicing operations. Evaluate whether over-application of deicing chemicals occurs by analyzing application rates, and adjust as necessary, consistent with considerations of flight safety. Consider these control measure options: metered application of chemicals; pre-wetting dry chemical constituents prior to application; install a runway ice detection system; implement anti-icing operations as a preventive measure against ice buildup.
 - *Aircraft Deicing Operations.* Minimize contamination of storm water runoff from aircraft deicing operations. Determine whether excessive application of deicing chemicals occurs and adjust as necessary, consistent with considerations of flight safety. Evaluate using alternative deicing/anti-icing

agents as well as containment measures for all applied chemicals. Consider these control measure options for reducing deicing fluid use: forced-air deicing systems, computer-controlled fixed-gantry systems, infrared technology, hot water, varying glycol content to air temperature, enclosed-basket deicing trucks, mechanical methods, solar radiation, hangar storage, aircraft covers, and thermal blankets for MD-80s and DC-9s. Also consider using ice-detection systems and airport traffic flow strategies and departure slot allocation systems. The evaluations and determinations required by this Part should be carried out by the personnel most familiar with the particular aircraft and flight operations and related systems in question (versus an outside entity such as the airport authority).

11.S.4.1.7 Management of Runoff.

(See also 4.2.6) Where deicing operations occur, implement a program to control or manage contaminated runoff to minimize the amount of pollutants being discharged from the site. Consider these control measure options: a dedicated deicing facility with a runoff collection/recovery system; using vacuum/collection trucks; storing contaminated storm water/deicing fluids in tanks and releasing controlled amounts to a publicly owned treatment works; collecting contaminated runoff in a wet pond for biochemical decomposition (be aware of attracting wildlife that may prove hazardous to flight operations); or directing runoff into vegetative swales or other infiltration measures. Also consider recovering deicing materials when these materials are applied during non-precipitation events (e.g., covering storm sewer inlets, using booms, installing absorptive interceptors in the drains, etc.) to prevent these materials from later becoming a source of storm water contamination. Deicing operations should be developed with an emphasis on using a combination of the BMPs listed above to contain, capture, and reuse deicing materials. Used deicing fluid should be recycled whenever practicable.

11.S.4.2 Deicing Season. (See also Part 11.S.7.) The permittee must determine the seasonal timeframe (e.g., December- February, October - March, etc.) during which deicing activities typically occur at the facility. Implementation of control measures, including any BMPs, facility inspections and monitoring must be conducted with particular emphasis throughout the defined deicing season. If the permittee meets the deicing chemical usage thresholds of 100,000 gallons glycol and/or 100 tons of urea, the deicing season they identified is the timeframe during which the permittee must obtain the four required benchmark monitoring event results for deicing-related parameters, i.e., BOD, COD, ammonia and pH.

11.S.5 Additional SWPPP Requirements.

An airport authority and tenants of the airport are encouraged to work in partnership in the development of a SWPPP. If an airport tenant obtains authorization under this permit and develops a SWPPP for discharges from his or her own areas of the airport, prior to authorization, that SWPPP must be coordinated and integrated with the SWPPP for the entire airport. Tenants of the airport facility include air passenger or cargo companies, fixed based operators and other parties who have contracts with the airport authority to conduct business operations on airport property and whose operations result in storm water discharges associated with industrial activity.

- 11.S.5.1 Drainage Area Site Map.* (See also Part 5.2.3) The permittee must document in the SWPPP the following areas of the facility and indicate whether activities occurring there may be exposed to precipitation/surface runoff: aircraft and runway deicing operations; fueling stations; aircraft, ground vehicle and equipment maintenance/cleaning areas; storage areas for aircraft, ground vehicles and equipment awaiting maintenance.
- 11.S.5.2 Potential Pollutant Sources.* (See also Part 5.2.4) In the permittees inventory of exposed materials, describe in the SWPPP the potential for the following activities and facility areas to contribute pollutants to storm water discharges: aircraft, runway, ground vehicle and equipment maintenance and cleaning; aircraft and runway deicing operations (including apron and centralized aircraft deicing stations, runways, taxiways and ramps). If the permittee uses deicing chemicals, they must maintain a record of the types (including the Material Safety Data Sheets [MSDS]) used and the monthly quantities, either as measured or, in the absence of metering, as estimated to the best of the permittees knowledge. This includes all deicing chemicals, not just glycols and urea (e.g., potassium acetate), because large quantities of these other chemicals can still have an adverse impact on receiving waters. Tenants or other fixed-based operations that conduct deicing operations must provide the above information to the airport authority for inclusion with any comprehensive airport SWPPPs.
- 11.S.5.3 Vehicle and Equipment Washwater Requirements.* Attach to or reference in the SWPPP, a copy of the APDES permit issued for vehicle/equipment washwater or, if an APDES permit has not been issued, a copy of the pending application. If an industrial user permit is issued under a local pretreatment program, include a copy in the SWPPP. In any case, if the permittee is subject to another permit, describe the control measures for implementing all non-storm water discharge permit conditions or pretreatment requirements in the SWPPP. If washwater is handled in another manner (e.g., hauled offsite, retained onsite), describe the disposal method and attach all pertinent documentation/information (e.g., frequency, volume, destination, etc.) in the SWPPP.
- 11.S.5.4 Documentation of Control Measures Used for Management of Runoff.* Document in the SWPPP the control measures used for collecting or containing contaminated melt water from collection areas used for disposal of contaminated snow.

11.S.6 Additional Inspection Requirements.

11.S.6.1 Inspections. (See also Part 6.1) At a minimum, conduct routine facility inspections at least monthly during the deicing season (e.g., October through April for most airports). If a permittees facility needs to deice before or after this period, expand the monthly inspections to include all months during which deicing chemicals may be used. The Department may specifically require the permittee to increase inspection frequencies.

11.S.6.2 Comprehensive Site Inspections. (See also Part 6.3) Using only qualified personnel, conduct the annual site inspection during periods of actual deicing operations, if possible. If not practicable during active deicing because of weather, conduct the inspection during the season when deicing operations occur and the materials and equipment for deicing are in place.

11.S.7 Sector-Specific Benchmarks. (See also Part 7 of the permit.)

Monitor per the requirements in Table 11.S.7-1.

Table 11.S.7-1: Sector – Specific Benchmarks – Sector S

Subsector (Permittees may be subject to requirements for more than one sector/subsector)	Parameter	Benchmark Monitoring Concentration
For airports where a single permittee, or a combination of permitted facilities use more than 100,000 gallons of pure glycol in glycol-based deicing fluids and/or 100 tons or more of urea on an average annual basis, monitor the first four parameters in ONLY those outfalls that collect runoff from areas where deicing activities occur (SIC 4512-4581).	Biochemical Oxygen Demand (BOD ₅) ¹	30 mg/L
	Chemical Oxygen Demand (COD) ¹	120 mg/L
	Ammonia ^{1, 2}	2.14 mg/L
	pH ¹	6.5 – 8.5 s.u.
Note: 1. These are deicing-related parameters. Collect the four benchmark samples, and any required follow-up benchmark samples, during the timeframe defined in Part 11.S.4.2 when deicing activities are occurring. 2. If a permittee certifies annually that it does not use airfield deicing products that contain urea, then the permittee does not need to sample for ammonia.		

11.S.8 Sector-Specific Effluent Limitation Guideline.

There shall be no discharge of airfield pavement deicers containing urea, unless there is monitoring. To comply with this limitation, any existing point source must certify annually that it does not use airfield deicing products that contain urea or alternatively, airfield pavement discharges at every discharge point must achieve the numeric limitations for ammonia in Table 11.S.8-1, prior to any dilution or commingling with any non-deicing discharge. The certification statement shall be maintained in the SWPPP and signed in accordance with Appendix A, Part 1.12. Monitor per the requirements in Table 11.S.8-1.

Table 11.S.8-1: Effluent Limitations Based on 40 CFR Part 449 BAT Limitations

Wastestream	Parameter	Daily Maximum
Runoff containing urea from airfield pavement deicing at existing primary airports with 1,000 or more annual non-propeller aircraft ¹ departures.	Ammonia as Nitrogen ²	14.7 mg/l
Note: 1. Annual non-propeller aircraft is the average annual aircraft departures of commercial turbine-engine aircraft that are propelled by jet, i.e., turbojet or turbofan as tabulated by the Federal Aviation Administration. 2. Monitor twice a deicing season during the timeframe defined in Part 11.S.4.2 when deicing activities are occurring.		

11.S.9 Technology Based – Effluent Limits for New Sources with At Least 1,000 Annual Non-Propeller Aircraft Departures.

A new airport with at least 1,000 annual non-propeller aircraft departures must apply for an individual APDES permit.

APPENDIX A

STANDARD CONDITIONS

APDES PERMIT

NONDOMESTIC DISCHARGES

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Appendix A of the permit contains standard regulatory language that must be included in all APDES permits. These requirements are based on the regulations and cannot be challenged in the context of an individual APDES permit action. The standard regulatory language covers requirements such as monitoring, recording, reporting requirements, compliance responsibilities, and other general requirements. Appendix A, Standard Conditions is an integral and enforceable part of the permit. Failure to comply with a Standard Condition in this Appendix constitutes a violation of the permit and is subject to enforcement.

1.0 Standard Conditions Applicable to All Permits

1.1 Contact Information and Addresses

1.1.1 Permitting Program

Documents, reports, and plans required under the permit and Appendix A are to be sent to the following address:

State of Alaska
Department of Environmental Conservation
Division of Water
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, Alaska 99501
Telephone (907) 269-6285
Fax (907) 269-3487
Email: DEC.Water.WQPermit@alaska.gov

1.1.2 Compliance and Enforcement Program

Documents and reports required under the permit and Appendix A relating to compliance are to be sent to the following address:

State of Alaska
Department of Environmental Conservation
Division of Water
Compliance and Enforcement Program
555 Cordova Street
Anchorage, Alaska 99501
Telephone Nationwide (877) 569-4114
Anchorage Area / International (907) 269-4114
Fax (907) 269-4604
Email: dec-wqreporting@alaska.gov

1.2 Duty to Comply

A permittee shall comply with all conditions of the permittee's APDES permit. Any permit noncompliance constitutes a violation of 33 U.S.C 1251-1387 (Clean Water Act) and state law and is grounds for enforcement action including termination, revocation and reissuance, or modification of a permit, or denial of a permit renewal application. A permittee shall comply with effluent standards or prohibitions established under 33 U.S.C. 1317(a) for toxic pollutants within the time provided in the regulations that establish those effluent standards or prohibitions even if the permit has not yet been modified to incorporate the requirement.

1.3 Duty to Reapply

If a permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee must apply for and obtain a new permit. In accordance with 18 AAC 83.105(b), a permittee with a currently effective permit shall reapply by submitting a new application at least 180 days before the existing permit expires, unless the Department has granted the permittee permission to submit an application on a later date. However, the Department will not grant permission for an application to be submitted after the expiration date of the existing permit.

1.4 Need to Halt or Reduce Activity Not a Defense

In an enforcement action, a permittee may not assert as a defense that compliance with the conditions of the permit would have made it necessary for the permittee to halt or reduce the permitted activity.

1.5 Duty to Mitigate

A permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

1.6 Proper Operation and Maintenance

1.6.1 A permittee shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances that the permittee installs or uses to achieve compliance with the conditions of the permit. The permittee's duty to operate and maintain properly includes using adequate laboratory controls and appropriate quality assurance procedures. However, a permittee is not required to operate back-up or auxiliary facilities or similar systems that a permittee installs unless operation of those facilities is necessary to achieve compliance with the conditions of the permit.

1.6.2 Operation and maintenance records shall be retained and made available at the site.

1.7 Permit Actions

A permit may be modified, revoked and reissued, or terminated for cause as provided in 18 AAC 83.130. If a permittee files a request to modify, revoke and reissue, or terminate a permit, or gives notice of planned changes or anticipated noncompliance, the filing or notice does not stay any permit condition.

1.8 Property Rights

A permit does not convey any property rights or exclusive privilege.

1.9 Duty to Provide Information

A permittee shall, within a reasonable time, provide to the Department any information that the Department requests to determine whether a permittee is in compliance with the permit, or whether cause exists to modify, revoke and reissue, or terminate the permit. A permittee shall also provide to the Department, upon request, copies of any records the permittee is required to keep under the permit.

1.10 Inspection and Entry

A permittee shall allow the Department, or an authorized representative, including a contractor acting as a representative of the Department, at reasonable times and on presentation of credentials establishing authority and any other documents required by law, to:

- 1.10.1 Enter the premises where a permittee's regulated facility or activity is located or conducted, or where permit conditions require records to be kept;
- 1.10.2 Have access to and copy any records that permit conditions require the permittee to keep;
- 1.10.3 Inspect any facilities, equipment, including monitoring and control equipment, practices, or operations regulated or required under a permit; and
- 1.10.4 Sample or monitor any substances or parameters at any location for the purpose of assuring permit compliance or as otherwise authorized by 33 U.S.C. 1251-1387 (Clean Water Act).

1.11 Monitoring and Records

A permittee must comply with the following monitoring and recordkeeping conditions:

- 1.11.1 Samples and measurements taken for the purpose of monitoring must be representative of the monitored activity.
- 1.11.2 The permittee shall retain records in Alaska of all monitoring information for at least three years, or longer at the Department's request at any time, from the date of the sample, measurement, report, or application. Monitoring records required to be kept include:
 - 1.11.2.1 All calibration and maintenance records,
 - 1.11.2.2 All original strip chart recordings or other forms of data approved by the Department for continuous monitoring instrumentation,
 - 1.11.2.3 All reports required by a permit,
 - 1.11.2.4 Records of all data used to complete the application for a permit,
 - 1.11.2.5 Field logbooks or visual monitoring logbooks,
 - 1.11.2.6 Quality assurance chain of custody forms,
 - 1.11.2.7 Copies of discharge monitoring reports, and
 - 1.11.2.8 A copy of this APDES permit.
- 1.11.3 Records of monitoring information must include:
 - 1.11.3.1 The date, exact place, and time of any sampling or measurement;
 - 1.11.3.2 The name(s) of any individual(s) who performed the sampling or measurement(s);
 - 1.11.3.3 The date(s) and time any analysis was performed;
 - 1.11.3.4 The name(s) of any individual(s) who performed any analysis;
 - 1.11.3.5 Any analytical technique or method used; and
 - 1.11.3.6 The results of the analysis.

1.11.4 Monitoring Procedures

Analyses of pollutants must be conducted using test procedures approved under 40 CFR Part 136, adopted by reference at 18 AAC 83.010, for pollutants with approved test procedures, and using test procedures specified in the permit for pollutants without approved methods.

1.12 Signature Requirement and Penalties

- 1.12.1 Any application, report, or information submitted to the Department in compliance with a permit requirement must be signed and certified in accordance with 18 AAC 83.385. Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, or other document filed or required to be maintained under a permit, or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be subject to penalties under 33 U.S.C. 1319(c)(4), AS 12.55.035(c)(1)(B), (c)(2) and (c)(3), and AS 46.03.790(g).
- 1.12.2 In accordance with 18 AAC 83.385, an APDES permit application must be signed as follows:
 - 1.12.2.1 For a corporation, a responsible corporate officer shall sign the application; in this subsection, a responsible corporate officer means:
 - 1.12.2.1.1 A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
 - 1.12.2.1.2 The manager of one of more manufacturing, production, or operating facilities, if
 - 1.12.2.1.2.1 The manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;
 - 1.12.2.1.2.2 The manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and
 - 1.12.2.1.2.3 Authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - 1.12.2.2 For a partnership or sole proprietorship, by the general partner or the proprietor, respectively, shall sign the application.
 - 1.12.2.3 For a municipality, state, federal, or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of an agency means:
 - 1.12.2.3.1 The chief executive officer of the agency; or
 - 1.12.2.3.2 A senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.
- 1.12.3 Any report required by an APDES permit, and a submittal with any other information requested by the Department, must be signed by a person described in Appendix A, Part 1.12.2, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1.12.3.1 The authorization is made in writing by a person described in Appendix A, Part 1.12.2;

- 1.12.3.2 The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, including the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility; or an individual or position having overall responsibility for environmental matters for the company; and
- 1.12.3.3 The written authorization is submitted to the Department to the Permitting Program address in Appendix A, Part 1.1.1.
- 1.12.4 If an authorization under Appendix A, Part 1.12.3 is no longer effective because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Appendix A, Part 1.12.3 must be submitted to the Department before or together with any report, information, or application to be signed by an authorized representative.
- 1.12.5 Any person signing a document under Appendix A, Part 1.12.2 or Part 1.12.3 shall certify as follows:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

1.13 Proprietary or Confidential Information

- 1.13.1 A permit applicant or permittee may assert a claim of confidentiality for proprietary or confidential business information by stamping the words "confidential business information" on each page of a submission containing proprietary or confidential business information. The Department will treat the stamped submissions as confidential if the information satisfies the test in 40 CFR §2.208, adopted by reference at 18 AAC 83.010, and is not otherwise required to be made public by state law.
- 1.13.2 A claim of confidentiality under Appendix A, Part 1.13.1 may not be asserted for the name and address of any permit applicant or permittee, a permit application, a permit, effluent data, sewage sludge data, and information required by APDES or NPDES application forms provided by the Department, whether submitted on the forms themselves or in any attachments used to supply information required by the forms.
- 1.13.3 A permittee's claim of confidentiality authorized under Appendix A, Part 1.13.1 is not waived if the Department provides the proprietary or confidential business information to the EPA or to other agencies participating in the permitting process. The Department will supply any information obtained or used in the administration of the state APDES program to the EPA upon request under 40 CFR §123.41, as revised as of July 1, 2005. When providing information submitted to the Department with a claim of confidentiality to the EPA, the Department will notify the EPA of the confidentiality claim. If the Department provides the EPA information that is not claimed to be confidential, the EPA may make the information available to the public without further notice.

1.14 Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any action or relieve a permittee

from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under state laws addressing oil and hazardous substances.

1.15 Cultural and Paleontological Resources

If cultural or paleontological resources are discovered because of this disposal activity, work that would disturb such resources is to be stopped, and the Office of History and Archaeology, a Division of Parks and Outdoor Recreation of the Alaska Department of Natural Resources (<http://www.dnr.state.ak.us/parks/oha/>), is to be notified immediately at (907) 269-8721.

1.16 Fee

A permittee must pay the appropriate permit fee described in 18 AAC 72.

1.17 Other Legal Obligations

This permit does not relieve the permittee from the duty to obtain any other necessary permits from the Department or from other local, state, or federal agencies and to comply with the requirements contained in any such permits. All activities conducted and all plan approvals implemented by the permittee pursuant to the terms of this permit shall comply with all applicable local, state, and federal laws and regulations.

2.0 Special Reporting Obligations

2.1 Planned Changes

- 2.1.1 The permittee shall give notice to the Department as soon as possible of any planned physical alteration or addition to the permitted facility if:
 - 2.1.1.1 The alteration or addition may make the facility a “new source” under one or more of the criteria in 18 AAC 83.990(44); or
 - 2.1.1.2 The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged if those pollutants are not subject to effluent limitations in the permit or to notification requirements under 18 AAC 83.610.
- 2.1.2 If the proposed changes are subject to plan review, then the plans must be submitted at least 30 days before implementation of changes (see 18 AAC 15.020 and 18 AAC 72 for plan review requirements). Written approval is not required for an emergency repair or routine maintenance.
- 2.1.3 Written notice must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.2 Anticipated Noncompliance

- 2.2.1 A permittee shall give seven days’ notice to the Department before commencing any planned change in the permitted facility or activity that may result in noncompliance with permit requirements.
- 2.2.2 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.3 Transfers

- 2.3.1 A permittee may not transfer a permit for a facility or activity to any person except after notice to the Department in accordance with 18 AAC 83.150. The Department may modify or revoke and reissue the permit to change the name of the permittee and incorporate such other requirements under 33 U.S.C. 1251-1387 (Clean Water Act) or state law.
- 2.3.2 Written notice must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.4 Compliance Schedules

- 2.4.1 A permittee must submit progress or compliance reports on interim and final requirements in any compliance schedule of a permit no later than 14 days following the scheduled date of each requirement.
- 2.4.2 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.5 Corrective Information

- 2.5.1 If a permittee becomes aware that it failed to submit a relevant fact in a permit application or submitted incorrect information in a permit application or in any report to the Department, the permittee shall promptly submit the relevant fact or the correct information.
- 2.5.2 Information must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.6 Bypass of Treatment Facilities

2.6.1 Prohibition of Bypass

Bypass is prohibited. The Department may take enforcement action against a permittee for any bypass, unless:

- 2.6.1.1 The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- 2.6.1.2 There were no feasible alternatives to the bypass, including use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. However, this condition is not satisfied if the permittee, in the exercise of reasonable engineering judgment, should have installed adequate back-up equipment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and
- 2.6.1.3 The permittee provides notice to the Department of a bypass event in the manner, as appropriate, under Appendix A, Part 2.6.2.

2.6.2 Notice of bypass

- 2.6.2.1 For an anticipated bypass, the permittee submits notice at least 10 days before the date of the bypass. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the conditions of Appendix A, Parts 2.6.1.1 and 2.6.1.2.
 - 2.6.2.2 For an unanticipated bypass, the permittee submits 24-hour notice, as required in 18 AAC 83.410(f) and Appendix A, Part 3.4, Twenty-four Hour Reporting.
 - 2.6.2.3 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.
- 2.6.3 Notwithstanding Appendix A, Part 2.6.1, a permittee may allow a bypass that:

- 2.6.3.1 Does not cause an effluent limitation to be exceeded, and
- 2.6.3.2 Is for essential maintenance to assure efficient operation.

2.7 Upset Conditions

- 2.7.1 In any enforcement action for noncompliance with technology-based permit effluent limitations, a permittee may claim upset as an affirmative defense. A permittee seeking to establish the occurrence of an upset has the burden of proof to show that the requirements of Appendix A, Part 2.7.2 are met.
- 2.7.2 To establish the affirmative defense of upset, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that:
 - 2.7.2.1 An upset occurred and the permittee can identify the cause or causes of the upset;
 - 2.7.2.2 The permitted facility was at the time being properly operated;
 - 2.7.2.3 The permittee submitted 24-hour notice of the upset, as required in 18 AAC 83.410(f) and Appendix A, Part 3.4, Twenty-four Hour Reporting; and
 - 2.7.2.4 The permittee complied with any mitigation measures required under 18 AAC 83.405(e) and Appendix A, Part 1.5, Duty to Mitigate.
- 2.7.3 Any determination made in administrative review of a claim that noncompliance was caused by upset, before an action for noncompliance is commenced, is not final administrative action subject to judicial review.

2.8 Existing Manufacturing, Commercial, Mining, and Silvicultural Discharges

- 2.8.1 In addition to the reporting requirements under 18 AAC 83.410, an existing manufacturing, commercial, mining, and silvicultural discharger shall notify the Department as soon as that discharger knows or has reason to believe that any activity has occurred or will occur that would result in:
 - 2.8.1.1 The discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - 2.8.1.1.1 One hundred micrograms per liter (100 µg/L);
 - 2.8.1.1.2 Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile, 500 micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol, and one milligram per liter (1 mg/L) for antimony;
 - 2.8.1.1.3 Five times the maximum concentration value reported for that pollutant in the permit application in accordance with 18 AAC 83.310(c)-(g); or
 - 2.8.1.1.4 The level established by the Department in accordance with 18 AAC 83.445.
 - 2.8.1.2 Any discharge, on a non-routine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
 - 2.8.1.2.1 Five hundred micrograms per liter (500 µg/L);
 - 2.8.1.2.2 One milligram per liter (1 mg/L) for antimony;

- 2.8.1.2.3 Ten times the maximum concentration value reported for that pollutant in the permit application in accordance with 18 AAC 83.310(c)-(g); or
- 2.8.1.2.4 The level established by the Department in accordance with 18 AAC 83.445.

3.0 Monitoring, Recording, and Reporting Requirements

3.1 Representative Sampling

A permittee must collect effluent samples from the effluent stream after the last treatment unit before discharge into the receiving waters. Samples and measurements must be representative of the volume and nature of the monitored activity or discharge.

3.2 Reporting of Monitoring Results

The permittee shall summarize monitoring results on the annual report form or approved equivalent. The permittee shall submit its annual report at the interval specified in the permit. The permittee shall sign and certify all annual reports and other reports in accordance with the requirements of Appendix A, Part 1.12, Signatory Requirement and Penalties. The permittee shall submit the legible originals of these documents to the ADEC Compliance and Enforcement Program at the address in Appendix A, Part 1.1.2.

3.3 Additional Monitoring by Permittee

If the permittee monitors any pollutant more frequently than the permit requires using test procedures approved in 40 CFR Part 136, adopted by reference at 18 AAC 83.010, or as specified in this permit, the results of that additional monitoring must be included in the calculation and reporting of the data submitted in the DMR or annual report required by Appendix A, Part 3.2. All limitations that require averaging of measurements must be calculated using an arithmetic means unless the Department specifies another method in the permit. Upon request by the Department, the permittee must submit the results of any other sampling and monitoring regardless of the test method used.

3.4 Twenty-four Hour Reporting

A permittee shall report any noncompliance event that may endanger health or the environment as follows:

- 3.4.1 A report must be made:
 - 3.4.1.1 Orally within 24 hours after the permittee becomes aware of the circumstances, and
 - 3.4.1.2 In writing within five days after the permittee becomes aware of the circumstances.
- 3.4.2 A report must include the following information:
 - 3.4.2.1 A description of the noncompliance and its causes, including the estimated volume or weight and specific details of the noncompliance;
 - 3.4.2.2 The period of noncompliance, including exact dates and times;
 - 3.4.2.3 If the noncompliance has not been corrected, a statement regarding the anticipated time the noncompliance is expected to continue; and
 - 3.4.2.4 Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

- 3.4.3 An event that must be reported within 24 hours includes:
- 3.4.3.1 An unanticipated bypass that exceeds any effluent limitation in the permit (see Appendix A, Part 2.6, Bypass of Treatment Facilities).
 - 3.4.3.2 An upset that exceeds any effluent limitation in the permit (see Appendix A, Part 2.7, Upset Conditions).
 - 3.4.3.3 A violation of a maximum daily discharge limitation for any of the pollutants listed in the permit as requiring 24-hour reporting.
- 3.4.4 The Department may waive the written report on a case-by-case basis for reports under Appendix A, Part 3.4 if the oral report has been received within 24 hours of the permittee becoming aware of the noncompliance event.
- 3.4.5 The permittee may satisfy the written reporting submission requirements of Appendix A, Part 3.4 by submitting the written report via e-mail, if the following conditions are met:
- 3.4.5.1 The Noncompliance Notification Form or equivalent form is used to report the noncompliance;
 - 3.4.5.2 The written report includes all the information required under Appendix A, Part 3.4.2;
 - 3.4.5.3 The written report is properly certified and signed in accordance with Appendix A, Parts 1.12.3 and 1.12.5.;
 - 3.4.5.4 The written report is scanned as a PDF (portable document format) document and transmitted to the Department as an attachment to the e-mail; and
 - 3.4.5.5 The permittee retains in the facility file the original signed and certified written report and a printed copy of the conveying email.
- 3.4.6 The e-mail and PDF written report will satisfy the written report submission requirements of this permit provided the e-mail is received by the Department within five days after the time the permittee becomes aware of the noncompliance event and the e-mail and written report satisfy the criteria of Part 3.4.5. The e-mail address to report noncompliance is:
dec-wqreporting@alaska.gov

3.5 Other Noncompliance Reporting

A permittee shall report all instances of noncompliance not required to be reported under Appendix A, Parts 2.4 (Compliance Schedules), 3.3 (Additional Monitoring by Permittee), and 3.4 (Twenty-four Hour Reporting) at the time the permittee submits monitoring reports under Appendix A, Part 3.2. (Reporting of Monitoring Results). A report of noncompliance under this part must contain the information listed in Appendix A, Part 3.4.2 and be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

4.0 Penalties for Violations of Permit Conditions

Alaska laws allow the State to pursue both civil and criminal actions concurrently. The following is a summary of Alaska law. Permittees should read the applicable statutes for further substantive and procedural details.

4.1 Civil Action

Under AS 46.03.760(e), a person who violates or causes or permits to be violated a regulation, a lawful

order of the Department, or a permit, approval, or acceptance, or term or condition of a permit, approval or acceptance issued under the program authorized by AS 46.03.020 (12) is liable, in a civil action, to the State for a sum to be assessed by the court of not less than \$500 nor more than \$100,000 for the initial violation, nor more than \$10,000 for each day after that on which the violation continues, and that shall reflect, when applicable:

- 4.1.1 Reasonable compensation in the nature of liquated damages for any adverse environmental effects caused by the violation, that shall be determined by the court according to the toxicity, degradability, and dispersal characteristics of the substance discharged, the sensitivity of the receiving environment, and the degree to which the discharge degrades existing environmental quality;
- 4.1.2 Reasonable costs incurred by the State in detection, investigation, and attempted correction of the violation;
- 4.1.3 The economic savings realized by the person in not complying with the requirements for which a violation is charged; and
- 4.1.4 The need for an enhanced civil penalty to deter future noncompliance.

4.2 Injunctive Relief

- 4.2.1 Under AS 46.03.820, the Department can order an activity presenting an imminent or present danger to public health or that would be likely to result in irreversible damage to the environment be discontinued. Upon receipt of such an order, the activity must be immediately discontinued.
- 4.2.2 Under AS 46.03.765, the Department can bring an action in Alaska Superior Court seeking to enjoin ongoing or threatened violations for Department-issued permits and Department statutes and regulations.

4.3 Criminal Action

Under AS 46.03.790(h), a person is guilty of a Class A misdemeanor if the person negligently:

- 4.3.1 Violates a regulation adopted by the Department under AS 46.03.020(12);
- 4.3.2 Violates a permit issued under the program authorized by AS 46.03.020(12);
- 4.3.3 Fails to provide information or provides false information required by a regulation adopted under AS 46.03.020(12);
- 4.3.4 Makes a false statement, representation, or certification in an application, notice, record, report, permit, or other document filed, maintained, or used for purposes of compliance with a permit issued under or a regulation adopted under AS 46.03.020(12); or
- 4.3.5 Renders inaccurate a monitoring device or method required to be maintained by a permit issued or under a regulation adopted under AS 46.03.020(12).

4.4 Other Fines

Upon conviction of a violation of a regulation adopted under AS 46.03.020(12), a defendant who is not an organization may be sentenced to pay a fine of not more than \$10,000 for each separate violation (AS 46.03.790(g)). A defendant that is an organization may be sentenced to pay a fine not exceeding the greater of: (1) \$200,00; (2) three times the pecuniary gain realized by the defendant as a result of the offense; or (3) three times the pecuniary damage or loss caused by the defendant to another, or the property of another, as a result of the offense (AS 12.55.035(c)(B), (c)(2), and (c)(3)).

APPENDIX B

ABBREVIATIONS AND ACRONYMS

Appendix B – Abbreviations and Acronyms

BOD₅ – Biochemical Oxygen Demand (5-day test)

BMP – Best Management Practice

CERCLA – Comprehensive Environmental Response, Compensation and Liability Act

CGP – Construction General Permit

COD – Chemical Oxygen Demand

CWA – Clean Water Act (or the Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq)

CWT – Centralized Waste Treatment

DMR – Discharge Monitoring Report

EPA – U. S. Environmental Protection Agency

ESA – Endangered Species Act

FWS – U. S. Fish and Wildlife Service

LA – Load Allocations

MDMR – MSGP Discharge Monitoring Report

MGD – Million Gallons per Day

MOS – Margin of Safety

MS4 – Municipal Separate Storm Sewer System

MSDS – Material Safety Data Sheet

MSGP – Multi-Sector General Permit

NAICS – North American Industry Classification System

NEPA – National Environmental Policy Act

NHPA – National Historic Preservation Act

NMFS – U. S. National Marine Fisheries Service

NOI – Notice of Intent

NOT – Notice of Termination

NPDES – National Pollutant Discharge Elimination System

NRC – National Response Center

NRHP – National Register of Historic Places

NSPS – New Source Performance Standard

NTU – Nephelometric Turbidity Unit

OMB – U. S. Office of Management and Budget

ORW – Outstanding Resource Water

OSM – U. S. Office of Surface Mining

POTW – Publicly Owned Treatment Works

RCRA – Resource Conservation and Recovery Act

RQ – Reportable Quantity

SARA – Superfund Amendments and Reauthorization Act

SHPO – State Historic Preservation Officer

SIC – Standard Industrial Classification

SMCRA – Surface Mining Control and Reclamation Act

SPCC – Spill Prevention, Control, and Countermeasures

SWPPP – Stormwater Pollution Prevention Plan

THPO – Tribal Historic Preservation Officer

TMDL – Total Maximum Daily Load

TSDf – Treatment, Storage, or Disposal Facility

TSS – Total Suspended Solids

USGS – United States Geological Survey

WLA – Wasteload Allocation

WQS – Water Quality Standard

APPENDIX C

DEFINITIONS

Appendix C – Definitions (for the purposes of this permit).

Action Area – all areas to be affected directly or indirectly by the storm water discharges, allowable non-storm water discharges, and storm water discharge-related activities, and not merely the immediate area involved in these discharges and activities.

Arid Climate – areas where annual rainfall averages from 0 to 10 inches.

Best Management Practices (BMPs) – schedules of activities, practices (and prohibitions of practices), structures, vegetation, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. See 40 CFR 122.2.

Co-Located Industrial Activities – Any industrial activities, excluding your primary industrial activity(ies), located on-site that are defined by the storm water regulations at 122.26(b)(14)(i)-(ix) and (xi). An activity at a facility is not considered co-located if the activity, when considered separately, does not meet the description of a category of industrial activity covered by the storm water regulations or identified by the SIC code list in Appendix D.

Control Measure – refers to any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

Director – a Director of the Division of Water within the Department of Environmental Conservation.

Discharge – when used without qualification, means the "discharge of a pollutant." See 40 CFR 122.2.

Discharge of a Pollutant – any addition of any “pollutant” or combination of pollutants to “waters of the United States” from any “point source,” or any addition of any pollutant or combination of pollutants to the waters of the “contiguous zone” or the ocean from any point source other than a vessel or other floating craft which is being used as a means of transportation. This includes additions of pollutants into waters of the United States from: surface runoff which is collected or channeled by man; discharges through pipes, sewers, or other conveyances, leading into privately owned treatment works. See 40 CFR 122.2.

Discharge-Related Activities – activities that cause, contribute to, or result in storm water and allowable non-storm water point source discharges, and measures such as the siting, construction and operation of BMPs to control, reduce, or prevent pollution in the discharges.

Drought-Stricken Area – a period of below average water content in streams, reservoirs, ground-water aquifers, lakes and soils.

EPA Approved or Established Total Maximum Daily Loads (TMDLs) – “EPA Approved TMDLs” are those that are developed by a State and approved by EPA. “EPA Established TMDLs” are those that are developed by EPA.

Existing Discharger – an operator applying for coverage under this permit for discharges authorized previously under an NPDES general or individual permit.

Facility or Activity – any NPDES “point source” (including land or appurtenances thereto) that is subject to regulation under the NPDES program. See 40 CFR 122.2.

Fall Freeze-up –For the purposes of this permit, means for planning purposes in the development of the SWPPP and initial planning of the control measure maintenance the date in the fall that air temperatures will be predominately below freezing. It is the date in the fall that has an 80% probability that a minimum temperature below a threshold of 32.5 degrees Fahrenheit will occur on or after the given date. This date can be found by looking up the “Fall ‘Freeze’ Probabilities” for the weather station closest to the facility on the website www.wrcc.dri.edu/summary/Climsmak.html. NOTE: This estimation of “Fall Freeze-up” is for planning purposes only. During construction and operation the permittee will need to maintain control measures based on actual conditions.

Federal Facility – any buildings, installations, structures, land, public works, equipment, aircraft, vessels, and other vehicles and property, owned by, or constructed or manufactured for the purpose of leasing to, the federal government.

Final Stabilization - For the purposes of this permit, means that:

1. All soil disturbing activities at the site have been completed and either of the two following criteria shall be met:
 - a. a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or
 - b. equivalent non vegetative permanent stabilization measures have been employed (such as the use of riprap, gabions, porous backfill (ADOT&PF Specification 703-2.10), railroad ballast or subballast, ditch lining (ADOT&PF Specification 610-2.01 with <3% smaller than #200 sieve), geotextiles, or fill material with low erodibility as determined by an engineer familiar with the site and documented in the SWPPP).
2. When background native vegetation will cover less than 100 percent of the ground (e.g., arid areas, beaches), the 70 percent coverage criteria is adjusted as follows: if the native vegetation covers 50 percent of the ground, then 70 percent of 50 percent ($0.70 \times 0.50 = 0.35$) would require 35 percent total cover for final stabilization. On a beach with no natural vegetation, no stabilization is required.

3. In arid and semi-arid areas only, all soil disturbing activities at the site have been completed and both of the following criteria have been met:
 - a. Temporary erosion control measures (e.g., degradable rolled erosion control product) are selected, designed, and installed along with an appropriate seed base to provide erosion control for at least three years without active maintenance by the permittee;
 - b. The temporary erosion control measures are selected, designed, and installed to achieve 70 percent vegetative coverage within three years.

Impaired Water (or “Water Quality Impaired Water” or “Water Quality Limited Segment”) – A water is impaired for purposes of this permit if it has been identified by a State or EPA pursuant to Section 303(d) of the Clean Water Act as not meeting applicable State water quality standards (these waters are called “water quality limited segments” under 40 CFR 30.2(j)). Impaired waters include both waters with approved or established TMDLs, and those for which a TMDL has not yet been approved or established.

Indian Country – (a) all land within the limits of any Indian reservation under the jurisdiction of the United States Government, notwithstanding the issuance of any patent, and including rights-of-way running through the reservation; (b) all dependent Indian communities within the borders of the United States, whether within the original or subsequently acquired territory thereof, and whether within or without the limits of a State, and (c) all Indian allotments, the Indian titles to which have not been extinguished, including rights-of-way running through the same. This definition includes all land held in trust for an Indian tribe. (18 U.S.C. 1151)

Industrial Activity – the 10 categories of industrial activities included in the definition of “storm water discharges associated with industrial activity” as defined in 40 CFR 122.26(b)(14)(i)-(ix) and (xi).

Industrial Storm Water – storm water runoff from industrial activity.

Measurable Storm Event - a storm event that results in an actual discharge from the facility that follows the preceding measurable storm event by at least 72 hours (3 days). No specific storm magnitude (i.e., 0.1 inches or greater) is specified, only an event which results in a discharge. For snowmelt, an event which some point in time produces a measurable discharge from the facility.

Minimize – To reduce and/or eliminate to the extent achievable using control measures (including best management practices) that are technologically available and economically practicable and achievable in light of best industry practice.

Municipal Separate Storm Sewer – a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- a. Owned or operated by a State, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage,

industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States;

- b. Designed or used for collecting or conveying storm water;
- c. Which is not a combined sewer; and
- d. Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR 122.2. See 40 CFR 122.26(b)(4) and (b)(7).

New Discharger – a facility from which there is a discharge, that did not commence the discharge at a particular site prior to August 13, 1979, which is not a new source, and which has never received a finally effective NPDES permit for discharges at that site. See 40 CFR 122.2.

New Source – any building, structure, facility, or installation from which there is or may be a “discharge of pollutants,” the construction of which commenced:

- after promulgation of standards of performance under section 306 of the CWA which are applicable to such source, or
- after proposal of standards of performance in accordance with section 306 of the CWA which are applicable to such source, but only if the standards are promulgated in accordance with section 306 within 120 days of their proposal. See 40 CFR 122.2.

New Source Performance Standards (NSPS) – technology-based standards for facilities that qualify as new sources under 40 CFR 122.2 and 40 CFR 122.29.

No exposure – all industrial materials or activities are protected by a storm-resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. See 40 CFR 122.26(g).

Operator – any entity with a storm water discharge associated with industrial activity that meets either of the following two criteria:

- a. The entity has operational control over industrial activities, including the ability to modify those activities;
- b. The entity has day-to-day operational control of activities at a facility necessary to ensure compliance with the permit (e.g., the entity is authorized to direct workers at a facility to carry out activities required by the permit); or
- c. The entity is either the owner or leasee of a parcel of land which is being used as a Non-Traditional Non-Metallic Mineral Mining facility.

Permittee – Is a person who is authorized to discharge pollutants to waters of the United States in accordance with the conditions and requirements of this permit.

Person – an individual, association, partnership, corporation, municipality, State or Federal agency, or an agent or employee thereof. See 40 CFR 122.2.

Point Source – any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel, or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural storm water runoff. See 40 CFR 122.2.

Pollutant – dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal and agricultural waste discharged into water. See 40 CFR 122.2.

Pollutant of Concern – A pollutant which causes or contributes to a violation of a water quality standard, including a pollutant which is identified as causing an impairment in a state's 303(d) list.

Practicable – For the purposes of this permit, means capable of being done after taking into consideration costs, existing technology, standards of construction practice, impacts to water quality, site conditions, and logistics in light of the overall project purpose.

Primary Airport – are publicly owned airports that receive scheduled passenger service and have more than 10,000 passengers boarding each year.

Primary Industrial Activity – includes any activities performed on-site which are (1) identified by the facility's primary SIC code; or (2) included in the narrative descriptions of 122.26(b)(14)(i), (iv), (v), or (vii), and (ix). [For co-located activities covered by multiple SIC codes, it is recommended that the primary industrial determination be based on the value of receipts or revenues or, if such information is not available for a particular facility, the number of employees or production rate for each process may be compared. The operation that generates the most revenue or employs the most personnel is the operation in which the facility is primarily engaged. In situations where the vast majority of on-site activity falls within one SIC code, that activity may be the primary industrial activity.] Narrative descriptions in 40 CFR 122.26(b)(14) identified above include: (i) activities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards; (iv) hazardous waste treatment storage, or disposal facilities including those that are operating under interim status or a permit under subtitle C of the Resource Conservation and Recovery Act (RCRA); (v) landfills, land application sites and open dumps that receive or have received industrial wastes; (vii) steam electric power generating facilities; and (ix) sewage treatment works with a design flow of 1.0 mgd or more.

Qualified Personnel – Qualified personnel are those who possess the knowledge and skills to assess conditions and activities that could impact storm water quality at your facility, and who can also evaluate the effectiveness of control measures.

Reportable Quantity Release – a release of a hazardous substance at or above the established legal threshold that requires emergency notification. Refer to 40 CFR Parts 110, 117, and 302 for complete definitions and reportable quantities for which notification is required.

Runoff Coefficient – the fraction of total rainfall that will appear at the conveyance as runoff. See 40 CFR 122.26(b)(11).

Saline Water – salinity equal or exceed 0.5 parts per thousand (by mass).

Semi-Arid Climate – areas where annual rainfall averages from 10 to 20 inches.

Significant Materials – includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to section 313 of Title III of SARA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges. See 40 CFR 122.26(b)(12).

Special Aquatic Sites – sites identified in 40 CFR 230 Subpart E. These are geographic areas, large or small, possessing special ecological characteristics of productivity, habitat, wildlife protection, or other important and easily disrupted ecological values. These areas are generally recognized as significantly influencing or positively contributing to the general overall environmental health or vitality of the entire ecosystem of a region.

Spring Thaw –For the purposes of this permit, means for planning purposes in the development of the SWPPP and initial planning of the control measure maintenance the date in the spring that air temperatures will be predominately above freezing. It is the date in the spring that has a 20% probability that a minimum temperature below a threshold of 32.5 degrees Fahrenheit will occur on or after the given date. This date can be found by looking up the “Spring ‘Freeze’ Probabilities” for the weather station closest to the facility on the website www.wrcc.dri.edu/summary/Climsmak.html NOTE: This estimation of “Spring Thaw” is for planning purposes only. During construction and operation the permittee will need to maintain control measures based on actual conditions.

Storm Water – storm water runoff, snow melt runoff, and surface runoff and drainage. See 40 CFR 122.26(b)(13).

Storm Water Discharges Associated with Construction Activity – a discharge of pollutants in storm water runoff from areas where soil disturbing activities (e.g., clearing, grading, or excavating), construction materials, or equipment storage or maintenance (e.g., fill piles, borrow areas, concrete truck washout, fueling), or other industrial storm water directly related to the construction process (e.g., concrete or asphalt batch plants) are located. See 40 CFR 122.26(b)(14)(x) and 40 CFR 122.26(b)(15).

Storm Water Discharges Associated with Industrial Activity – the discharge from any conveyance that is used for collecting and conveying storm water and that is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges

from facilities or activities excluded from the NPDES program under Part 122. For the categories of industries identified in this section, the term includes, but is not limited to, storm water discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at part 401 of this chapter); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and final products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water. For the purposes of this paragraph, material handling activities include storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, by-product or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas. Industrial facilities include those that are federally, State, or municipally owned or operated that meet the description of the facilities listed in 40 CFR 122.26(b)(14). The term also includes those facilities designated under the provisions of 40 CFR 122.26(a)(1)(v). See 40 CFR 122.26(b)(14).

Temporary Stabilization – measures taken to protect soils from erosion by rainfall, snow melt, runoff, or wind, with surface roughening or a surface cover, including, but not limited to, establishment of ground vegetation, application of mulch, surface tackifiers, rolled erosion control products, gravel or paving.

Total Maximum Daily Loads (TMDLs) – A TMDL is a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant's sources. A TMDL includes wasteload allocations (WLAs) for point source discharges; load allocations (LAs) for nonpoint sources and/or natural background, and must include a margin of safety (MOS) and account for seasonal variations. (See Section 303(d) of the Clean Water Act and 40 CFR 130.2 and 130.7).

Uncontaminated – Free from the presence of pollutants attributable to industrial activity.

Water Quality Impaired – See ‘Impaired Water’.

Water Quality Standards – For the purposes of this permit, means the Alaska Water Quality Standards (18 AAC 70) as approved by U.S. EPA. As defined in 40 CFR § 131.3 water quality standards are provisions of State or Federal law which consist of a designated use or uses for the waters of the United States and water quality criteria for such waters based upon such uses. Water quality standards are to protect the public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act.

Winter Shutdown – The cessation of soil disturbing or soil stabilizing construction activity for the winter. Typically this period is from October/November to April/May and is approximately from fall freeze-up to spring thaw.

“You” and “Your” – as used in this permit are intended to refer to the permittee, the operator, or the discharger as the context indicates and that party’s facility or responsibilities. The use of “you” and “your” refers to a particular facility and not to all facilities operated by a particular entity. For example, “you must submit” means the permittee must submit something for that particular facility. Likewise, “all your discharges” would refer only to discharges at that one facility.

APPENDIX D

ACTIVITIES COVERED

Appendix D – Facilities and Activities Covered

Your permit eligibility is limited to discharges from facilities in the “sectors” of industrial activity summarized in Table D-1. These sector descriptions are based on Standard Industrial Classification (SIC) Codes and Industrial Activity Codes. References to “sectors” in this permit (e.g., sector-specific monitoring requirements) refer to these groupings.

Table D-1. Sectors of Industrial Activity Covered by This Permit

Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code ¹	Activity Represented
SECTOR A: TIMBER PRODUCTS		
A1	2421	General Sawmills and Planing Mills
A2	2491	Wood Preserving
A3	2411	Log Storage and Handling
A4	2426	Hardwood Dimension and Flooring Mills
	2429	Special Product Sawmills, Not Elsewhere Classified
	2431-2439 (except 2434)	Millwork, Veneer, Plywood, and Structural Wood (see Sector W)
	2448	Wood Pallets and Skids
	2449	Wood Containers, Not Elsewhere Classified
	2451, 2452	Wood Buildings and Mobile Homes
	2493	Reconstituted Wood Products
	2499	Wood Products, Not Elsewhere Classified
A5	2441	Nailed and Lock Corner Wood Boxes and Shook
SECTOR B: PAPER AND ALLIED PRODUCTS		
B1	2631	Paperboard Mills
B2	2611	Pulp Mills
	2621	Paper Mills
	2652-2657	Paperboard Containers and Boxes
	2671-2679	Converted Paper and Paperboard Products, Except Containers and Boxes
SECTOR C: CHEMICALS AND ALLIED PRODUCTS		
C1	2873-2879	Agricultural Chemicals
C2	2812-2819	Industrial Inorganic Chemicals
C3	2841-2844	Soaps, Detergents, and Cleaning Preparations; Perfumes, Cosmetics, and Other Toilet Preparations
C4	2821-2824	Plastics Materials and Synthetic Resins, Synthetic Rubber, Cellulosic and Other Manmade Fibers Except Glass
C5	2833-2836	Medicinal Chemicals and Botanical Products; Pharmaceutical Preparations; in vitro and in vivo Diagnostic Substances; and Biological Products, Except Diagnostic Substances
	2851	Paints, Varnishes, Lacquers, Enamels, and Allied Products
	2861-2869	Industrial Organic Chemicals
	2891-2899	Miscellaneous Chemical Products
C5	3952 (limited to list of inks and paints)	Inks and Paints, Including China Painting Enamels, India Ink, Drawing Ink, Platinum Paints for Burnt Wood or Leather Work, Paints for China Painting, Artist's Paints and Artist's Watercolors
	2911	Petroleum Refining

Table D-1. Sectors of Industrial Activity Covered by This Permit

Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code¹	Activity Represented
SECTOR D: ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS		
D1	2951, 2952	Asphalt Paving and Roofing Materials
D2	2992, 2999	Miscellaneous Products of Petroleum and Coal
SECTOR E: GLASS, CLAY, CEMENT, CONCRETE, AND GYPSUM PRODUCTS		
E1	3251-3259	Structural Clay Products
	3261-3269	Pottery and Related Products
E2	3271-3275	Concrete, Gypsum, and Plaster Products
E3	3211	Flat Glass
	3221, 3229	Glass and Glassware, Pressed or Blown
	3231	Glass Products Made of Purchased Glass
	3241	Hydraulic Cement
	3281	Cut Stone and Stone Products
	3291-3299	Abrasive, Asbestos, and Miscellaneous Nonmetallic Mineral Products
SECTOR F: PRIMARY METALS		
F1	3312-3317	Steel Works, Blast Furnaces, and Rolling and Finishing Mills
F2	3321-3325	Iron and Steel Foundries
F3	3351-3357	Rolling, Drawing, and Extruding of Nonferrous Metals
F4	3363-3369	Nonferrous Foundries (Castings)
F5	3331-3339	Primary Smelting and Refining of Nonferrous Metals
	3341	Secondary Smelting and Refining of Nonferrous Metals
	3398, 3399	Miscellaneous Primary Metal Products
SECTOR G: METAL MINING (ORE MINING AND DRESSING)		
G1	1021	Copper Ore and Mining Dressing Facilities
G2	1011	Iron Ores
	1021	Copper Ores
	1031	Lead and Zinc Ores
	1041, 1044	Gold and Silver Ores
	1061	Ferroalloy Ores, Except Vanadium
	1081	Metal Mining Services
	1094, 1099	Miscellaneous Metal Ores
SECTOR H: COAL MINES AND COAL MINING-RELATED FACILITIES		
H1	1221-1241	Coal Mines and Coal Mining-Related Facilities
SECTOR I: OIL AND GAS EXTRACTION AND REFINING		
I1	1311	Crude Petroleum and Natural Gas
	1321	Natural Gas Liquids
	1381-1389	Oil and Gas Field Services
SECTOR J: MINERAL MINING AND DRESSING		
J1	1442	Construction Sand and Gravel
	1446	Industrial Sand
J2	1411	Dimension Stone
	1422-1429	Crushed and Broken Stone, Including Rip Rap
	1481	Nonmetallic Minerals Services, Except Fuels
	1499	Miscellaneous Nonmetallic Minerals, Except Fuels
J3	1455, 1459	Clay, Ceramic, and Refractory Materials
	1474-1479	Chemical and Fertilizer Mineral Mining

Table D-1. Sectors of Industrial Activity Covered by This Permit

Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code¹	Activity Represented
SECTOR K: HAZARDOUS WASTE TREATMENT, STORAGE, OR DISPOSAL FACILITIES		
K1	HZ	Hazardous Waste Treatment, Storage, or Disposal Facilities, including those that are operating under interim status or a permit under subtitle C of RCRA
SECTOR L: LANDFILLS, LAND APPLICATION SITES, AND OPEN DUMPS		
L1	LF	All Landfill, Land Application Sites and Open Dumps
L2	LF	All Landfill, Land Application Sites and Open Dumps, except Municipal Solid Waste Landfill (MSWLF) Areas Closed in Accordance with 40 CFR 258.60
SECTOR M: AUTOMOBILE SALVAGE YARDS		
M1	5015	Automobile Salvage Yards
SECTOR N: SCRAP RECYCLING FACILITIES		
N1	5093	Scrap Recycling and Waste Recycling Facilities except Source-Separated Recycling
N2	5093	Source-separated Recycling Facility
SECTOR O: STEAM ELECTRIC GENERATING FACILITIES		
O1	SE	Steam Electric Generating Facilities, including coal handling sites
SECTOR P: LAND TRANSPORTATION AND WAREHOUSING		
P1	4011, 4013	Railroad Transportation
	4111-4173	Local and Highway Passenger Transportation
	4212-4231	Motor Freight Transportation and Warehousing
	4311	United States Postal Service
	5171	Petroleum Bulk Stations and Terminals
SECTOR Q: WATER TRANSPORTATION		
Q1	4412-4499	Water Transportation Facilities
SECTOR R: SHIP AND BOAT BUILDING AND REPAIRING YARDS		
R1	3731, 3732	Ship and Boat Building or Repairing Yards
SECTOR S: AIR TRANSPORTATION FACILITIES		
S1	4512-4581	Air Transportation Facilities
SECTOR T: TREATMENT WORKS		
T1	TW	Treatment Works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage, treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR Part 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with section 405 of the CWA
SECTOR U: FOOD AND KINDRED PRODUCTS		
U1	2041-2048	Grain Mill Products
U2	2074-2079	Fats and Oils Products
U3	2011-2015	Meat Products
	2021-2026	Dairy Products

Table D-1. Sectors of Industrial Activity Covered by This Permit

Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code¹	Activity Represented
U3	2032-2038	Canned, Frozen, and Preserved Fruits, Vegetables, and Food Specialties
	2051-2053	Bakery Products
	2061-2068	Sugar and Confectionery Products
	2082-2087	Beverages
	2091-2099	Miscellaneous Food Preparations and Kindred Products
	2111-2141	Tobacco Products
SECTOR V: TEXTILE MILLS, APPAREL, AND OTHER FABRIC PRODUCT MANUFACTURING; LEATHER AND LEATHER PRODUCTS		
V1	2211-2299	Textile Mill Products
	2311-2399	Apparel and Other Finished Products Made from Fabrics and Similar Materials
	3131-3199	Leather and Leather Products (note: see Sector Z1 for Leather Tanning and Finishing)
SECTOR W: FURNITURE AND FIXTURES		
W1	2434	Wood Kitchen Cabinets
	2511-2599	Furniture and Fixtures
SECTOR X: PRINTING AND PUBLISHING		
X1	2711-2796	Printing, Publishing, and Allied Industries
SECTOR Y: RUBBER, MISCELLANEOUS PLASTIC PRODUCTS, AND MISCELLANEOUS MANUFACTURING INDUSTRIES		
Y1	3011	Tires and Inner Tubes
	3021	Rubber and Plastics Footwear
	3052, 3053	Gaskets, Packing and Sealing Devices, and Rubber and Plastic Hoses and Belting
	3061, 3069	Fabricated Rubber Products, Not Elsewhere Classified
Y2	3081-3089	Miscellaneous Plastics Products
	3931	Musical Instruments
	3942-3949	Dolls, Toys, Games, and Sporting and Athletic Goods
	3951-3955 (except 3952 – see Sector C)	Pens, Pencils, and Other Artists' Materials
	3961, 3965	Costume Jewelry, Costume Novelties, Buttons, and Miscellaneous Notions, Except Precious Metal
	3991-3999	Miscellaneous Manufacturing Industries
SECTOR Z: LEATHER TANNING AND FINISHING		
Z1	3111	Leather Tanning and Finishing
SECTOR AA: FABRICATED METAL PRODUCTS		
AA1	3411-3499 (except 3479)	Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services.
	3911-3915	Jewelry, Silverware, and Plated Ware
AA2	3479	Fabricated Metal Coating and Engraving
SECTOR AB: TRANSPORTATION EQUIPMENT, INDUSTRIAL OR COMMERCIAL MACHINERY		
AB1	3511-3599 (except 3571-3579)	Industrial and Commercial Machinery, Except Computer and Office Equipment (see Sector AC)

Table D-1. Sectors of Industrial Activity Covered by This Permit

Subsector (May be subject to more than one sector/subsector)	SIC Code or Activity Code ¹	Activity Represented
AB1	3711-3799 (except 3731, 3732)	Transportation Equipment Except Ship and Boat Building and Repairing (see Sector R)
SECTOR AC: ELECTRONIC, ELECTRICAL, PHOTOGRAPHIC, AND OPTICAL GOODS		
AC1	3571-3579	Computer and Office Equipment
	3812-3873	Measuring, Analyzing, and Controlling Instruments; Photographic and Optical Goods, Watches, and Clocks
	3612-3699	Electronic and Electrical Equipment and Components, Except Computer Equipment
SECTOR AD: NON-CLASSIFIED FACILITIES		
AD1	Other stormwater discharges designated by the Director as needing a permit (see 40 CFR 122.26(a)(9)(i)(C) & (D)) or any facility discharging stormwater associated with industrial activity not described by any of Sectors A-AC. NOTE: Facilities may not elect to be covered under Sector AD. Only the Director may assign a facility to Sector AD.	
¹ A complete list of SIC Codes (and conversions from the newer North American Industry Classification System” (NAICS)) can be obtained from the Internet at www.census.gov/epcd/www/naics.html or in paper form from various locations in the document titled <i>Handbook of Standard Industrial Classifications</i> , Office of Management and Budget, 1987.		

Appendix E

Calculating Hardness in Receiving Waters for Hardness Dependent Metals

Appendix E – Calculating Hardness in Receiving Waters for Hardness Dependent Metals

E.1 Overview

EPA adjusted the benchmarks for six hardness-dependent metals (i.e., cadmium, copper, lead, nickel, silver, and zinc) to further ensure compliance with water quality standards and provide additional protection for endangered species and their critical habitat. For any sectors required to conduct benchmark samples for a hardness-dependent metal, DEC includes ‘hardness ranges’ from which benchmark values are determined. To determine which hardness range to use, you must collect data on the hardness of your receiving water(s). Once the site-specific hardness data have been collected, the corresponding benchmark value for each metal is determined by comparing where the hardness data fall within 25 mg/L ranges, as shown in Table E.1.

Table E.1: Hardness Ranges to Be Used to Determine Benchmark Values for Cadmium, Copper, Lead, Nickel, Silver, and Zinc.

All Units mg/L	Benchmark Values (mg/L, total)					
	Cadmium	Copper	Lead	Nickel	Silver	Zinc
0-25 mg/L	0.0005	0.0038	0.014	0.15	0.0007	0.04
25-50 mg/L	0.0008	0.0056	0.023	0.20	0.0007	0.05
50-75 mg/L	0.0013	0.0090	0.045	0.32	0.0017	0.08
75-100 mg/L	0.0018	0.0123	0.069	0.42	0.0030	0.11
100-125 mg/L	0.0023	0.0156	0.095	0.52	0.0046	0.13
125-150 mg/L	0.0029	0.0189	0.122	0.61	0.0065	0.16
150-175 mg/L	0.0034	0.0221	0.151	0.71	0.0087	0.18
175-200 mg/L	0.0039	0.0253	0.182	0.80	0.0112	0.20
200-225 mg/L	0.0045	0.0285	0.213	0.89	0.0138	0.23
225-250 mg/L	0.0050	0.0316	0.246	0.98	0.0168	0.25
250+ mg/L	0.0053	0.0332	0.262	1.02	0.0183	0.26

E.2 How to Determine Hardness for Hardness-Dependent Parameters.

You may select one of three methods to determine hardness, including; individual grab sampling, grab sampling by a group of operators which discharge to the same receiving water, or using third-party data. Regardless of the method used, you are responsible for documenting the procedures used for determining hardness values. Once the hardness value is established, you are required to include this information in your first benchmark report submitted to DEC so that the Department can make appropriate comparisons between your benchmark monitoring results and the corresponding benchmark. You must retain all report and monitoring data in accordance with Part 9.5 of the permit. The three method options for determining hardness are detailed in the following sections.

(1) Permittee Samples for Receiving Stream Hardness

This method involves collecting samples in the receiving water and submitting these to a laboratory for analysis. If you elect to sample your receiving water(s) and submit samples for analysis, hardness must be determined from the closest intermittent or perennial stream downstream of your point of discharge.

The sample can be collected during either dry or wet weather. Collection of the sample during wet weather is more representative of conditions during stormwater discharges; however, collection of in-stream samples during wet weather events may be impracticable or present safety issues.

Hardness must be sampled and analyzed using approved methods as described in 40 CFR Part 136 (Guidelines Establishing Test Procedures for the Analysis of Pollutants).

(2) Group Monitoring for Receiving Stream Hardness

You can be part of a group of permittees discharging to the same receiving waters and collect samples that are representative of the hardness values for all members of the group. In this scenario, hardness of the receiving water must be determined using 40 CFR Part 136 procedures and the results shared by group members. To use the same results, hardness measurements must be taken on a stream reach within a reasonable distance of the discharge points of each of the group members.

(3) Collection of Third-Party Hardness Data

You can submit receiving stream hardness data collected by a third party provided the results are collected consistent with the approved 40 CFR Part 136 methods. These data may come from a local water utility, previously conducted stream reports, TMDLs, peer reviewed literature, other government publications, or data previously collected by the permittee. Data should be less than 10 years old.

Water quality data for many of the nation's surface waters are available on-line or by contacting EPA or a state environmental agency. EPA's data system STORET, short for STORage and RETrieval, is a repository for receiving water quality, biological, and physical data and is used by state environmental agencies, EPA and other federal agencies, universities, private citizens, and many others. Similarly, state environmental agencies and the U.S. Geological Service (USGS) also have water quality data available that, in some instances, can be accessed online. "Legacy STORET" codes for hardness include: 259 hardness, carbonate; 260 hardness, noncarbonated; and 261 calcium + magnesium, while more recent, "Modern STORET" data codes include: 00900 hardness, 00901 carbonate hardness, and 00902 noncarbonate hardness; or the discrete measurements of calcium (00915) and magnesium (00925) can be used to calculate hardness. Hardness data historically has been reported as "carbonate," "noncarbonate," or "Ca + Mg." If these are unavailable, then individual results for calcium (Ca) and magnesium (Mg) may be used to calculate hardness using the following equation:

$$\frac{mg}{L} CaO_3 = 2.497 \left(Ca \frac{mg}{L} \right) + 4.118 \left(Mg \frac{mg}{L} \right)$$

When interpreting the data for carbonate and non-carbonate hardness, note that total hardness is equivalent to the sum of carbonate and noncarbonate hardness if both forms are reported. If only carbonate hardness is reported, it is more than likely that noncarbonate hardness is absent and the total hardness is equivalent to the available carbonate hardness.

Appendix F – MSGP Forms

Notice of Intent (NOI) Form

To obtain coverage under this permit, you must submit a Notice of Intent (NOI). You must submit an NOI using either:

- (1) DEC's Electronic Notice of Intent (eNOI) system, available at <http://dec.alaska.gov/water/wnpspc/stormwater/APDESeNOI.html>, or
- (2) file a paper copy of the NOI available at:
<http://dec.alaska.gov/water/wnpspc/stormwater/Forms.htm>.

Notice of Termination (NOT) Form

To terminate coverage under this permit, you must submit a Notice of Termination (NOT). You must either

- (1) terminate coverage using EPA's online eNOI system, available at <http://dec.alaska.gov/water/wnpspc/stormwater/APDESeNOI.html> or
- (2) file a paper copy of the NOT, available at:
<http://dec.alaska.gov/water/wnpspc/stormwater/Forms.htm>.

Annual Report Form

Available at: <http://dec.alaska.gov/water/wnpspc/stormwater/Forms.htm>.

Corrective Action Form

Available at: <http://dec.alaska.gov/water/wnpspc/stormwater/Forms.htm>.

NOI Modification Form

Available at: <http://dec.alaska.gov/water/wnpspc/stormwater/Forms.htm>.

MSGP Industrial Discharge Monitoring Report (MDMR)

Available at: <http://dec.alaska.gov/water/wnpspc/stormwater/Forms.htm>.

No Exposure Certification Form

Available at: <http://dec.alaska.gov/water/wnpspc/stormwater/Forms.htm>.

Noncompliance Notification Form

Available at <http://dec.alaska.gov/water/wnpspc/stormwater/Forms.htm>.

Appendix O
Additional Monitoring Required by ADEC – CWA
Section 308 – Correspondence & Report (Annual)



THE STATE
of **ALASKA**
GOVERNOR SEAN PARNEILL

**Department of Environmental
Conservation**

DIVISION OF WATER
Wastewater Discharge Authorization Program

555 Cordova Street
Anchorage, Alaska 99501-2617
Main: 907.269.6285
Fax: 907.334.2415
www.dec.alaska.gov/water/wwdp

January 24, 2014

Mr. John Johansen
Ted Stevens Anchorage International Airport
P.O. Box 196960
Anchorage, AK 99519-6960

Re: Ted Stevens Anchorage International Airport: Request for Information Pursuant to Clean
Water Act Section 308 and 18 AAC 83.425(d)

Dear Mr. Johansen:

This letter is a follow-up to our December 2, 2013 meeting and the letter from Scott Lytle on January 10, 2014 discussing the monitoring of storm water runoff from the Ted Stevens Anchorage International Airport (TSAIA). As was discussed in the December 2013 meeting, the Alaska Department of Environmental Conservation (DEC) is evaluating whether it is appropriate to shift permit coverage for TSAIA from the Multi-Sector General Permit (MSGP) to an individual permit. During the winter of 2013-2014, TSAIA made a change in runway deicing product to conform to a new Environmental Protection Agency Effluent Limitation Guideline. It is anticipated the change in deicer product will change the composition of the effluent emanating from TSAIA. Additional monitoring information is required to document the change in effluent and to determine the appropriate Clean Water Act (CWA) Section 402 permitting mechanism.

Under the authority provided by CWA Section 308 and 18 AAC 83.425(d), DEC requests that TSAIA collect certain information pertaining to the storm water runoff from the airport as described in Attachment No. 1 and certified with Attachment No. 2. During this period of data collection, TSAIA remains covered under the MSGP.

If you have any questions regarding the above, please contact William Ashton at 907-269-6283, or via email at William.Ashton@alaska.gov, or contact Jim Rypkema at 907-334-2288, or via email at Jim.Rypkema@alaska.gov.

Sincerely,

A handwritten signature in black ink that reads "Wade Strickland".

Wade Strickland
Program Manager

Enclosure: Attachment 1 and 2

cc (via email): Sharon Morgan, DEC w/enclosures
Jim Rypkema, DEC w/enclosures

William Ashton, DEC w/enclosures
Brent Andrews, DEC w/enclosures
Scott Lytle, TSAIA w/enclosures

ATTACHMENT No. 1

Ted Stevens Anchorage International Airport
Section 308 Information Request

At the beginning of the 2013/2014 deicing season, TSAIA shifted deicing products from urea to potassium acetate. This information request focuses on sampling storm water runoff to quantify the change in water quality due to the change in deicing product used at TSAIA. The water quality parameters to be sampled are detailed in Table 1. TSAIA must collect samples of storm water runoff and analyze such samples for pollutants in accordance with analytical methods approved under 40 CFR Part 136 unless an alternative method is approved by DEC.

Table 1. Monitoring Requirements for ANC

Parameter	Monitoring Requirements			Outfall Basin (See Figure 1)
	Monitoring Frequency	Sampling Type ¹	Monitoring Months	
Dissolved Oxygen – mg/l	1/Month	Grab	All	A, B, C, D, E
pH – S.U.	1/Month	Grab	All	A, B, C, D, E
Temperature – deg. C	1/Month	Grab	All	A, B, C, D, E
Biochemical Oxygen Demand – mg/L	1/Month	Composite	All	A, B, C, D, E
Chemical Oxygen Demand – mg/L	1/Month	Composite	All	A, B, C, D, E
Total Organic Carbon – mg/L	1/Month	Composite	All	A, B, C, D, E
Total Suspended Solids – mg/L	1/Month	Composite	All	A, B, C, D, E
Flow Rate - cfs	1/Month	Instantaneous	All	D
Oil & Grease – mg/L	1/Month	Grab	All	A, B, C, D, E
Total Ammonia Nitrogen – mg/L of N	1/Month	Composite	All	A, B, C, D, E
Salinity – g/kg	1/Month	Grab	Apr- Nov	D & E
Ethylene Glycol – mg/L	1/Month	Composite	Nov. - July	A, B, C, D, E
Propylene Glycol – mg/L	1/Month	Composite	Nov. - July	A, B, C, D, E
Residues	1/Month	Visual	All	A, B & D
Turbidity - NTU	1/Month	Grab	All	A, B, C
Color – color units	1/Month	Grab	All	A, B, C
Notes:				
1. All samples shall be consistent with requirements in 18 AAC 83.310(f) – within 72 hours from a previously measurable storm event, flow-weighted composite sample for the entire discharge or first three hours of the discharge with either a composite sampler or as a combination of a minimum of three sample aliquots taken in each hour of discharge for entire discharge or for the first three hours of the discharge, with each aliquot being separated by a minimum period of 15 minutes.				

Sampling shall start in March 2014 and proceed through October 2015. In the event that frozen conditions prohibit sampling during winter months, TSAIA must allocate those sample events to supplement sampling events during increased flows caused by winter break-up and increased flows from heavy seasonal precipitation events.

The sampling results for the period March 2014 through October 2014 shall be submitted to DEC thirty days after receipt of the laboratory test results for the period October 2014. The results for the period November 2014 through October 2015 shall be submitted to DEC thirty days after receipt of the laboratory test results for the period October 2015.

The results shall be submitted to

Mr. William Ashton
Alaska Department of Environmental Conservation
Wastewater Discharge Authorization Program
555 Cordova St.
Anchorage, AK 99501

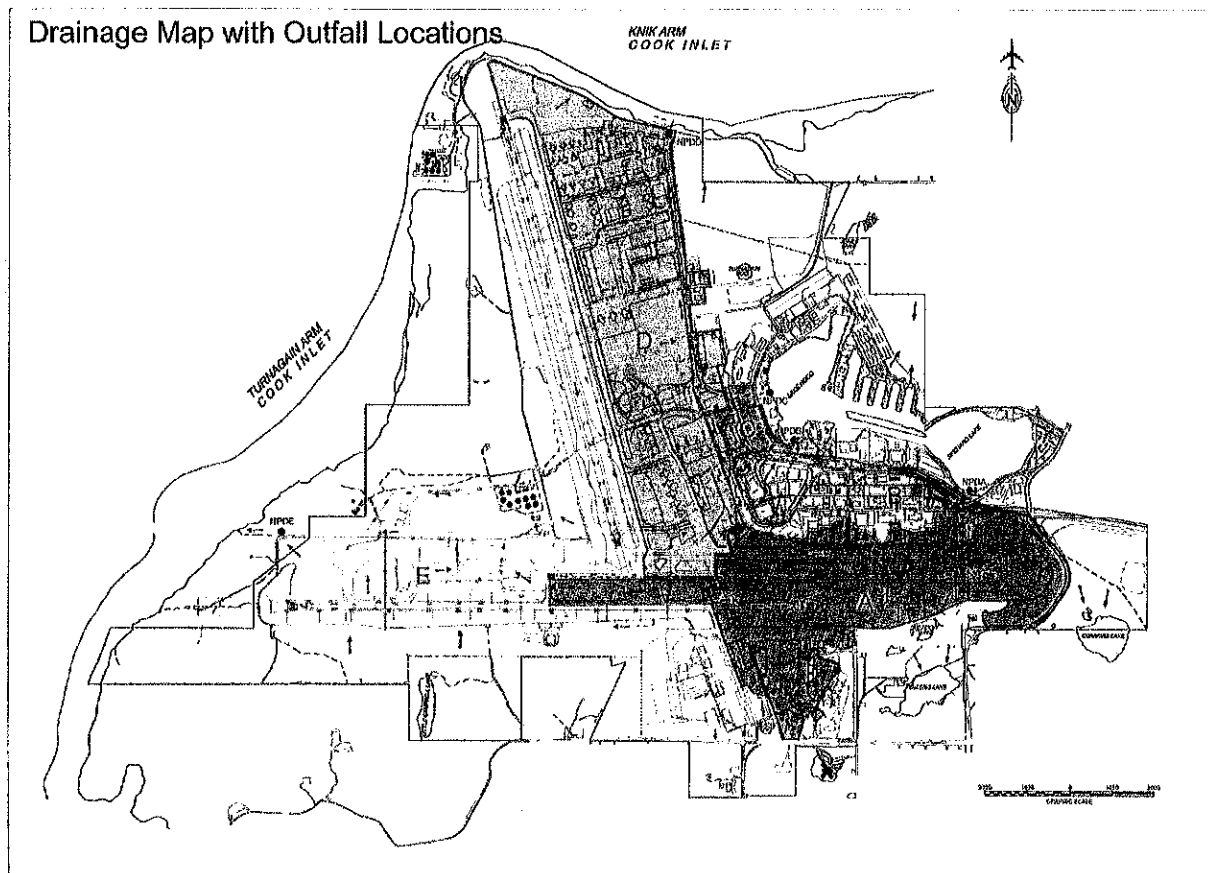


Figure 1: Drainage Map with Outfall Locations

ATTACHMENT No. 2

STATEMENT OF CERTIFICATION

The information provided shall be submitted with the following certification including signature from an authorized signatory as specified in 18 AAC 83.385(d).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name

Title

Signature

Date

Organization

Email



THE STATE
of **ALASKA**
GOVERNOR SEAN PARNELL

Department of Transportation and Public Facilities

Alaska International Airport System
Ted Stevens Anchorage International Airport

P.O. Box 196960
Anchorage, AK 99519-6960
Main: 907.266.2526
Fax: 907.243.0663

Website: www.anchorageairport.com

February 19, 2014

Wade Strickland
APDES Program Manager
Division of Water Quality
Alaska Department of Environmental Conservation
555 Cordova Street
Anchorage, AK 99501

Re: Revised Water Sampling Plan for Storm Water – Ted Stevens Anchorage International Airport

Dear Mr. Strickland:

The Ted Stevens Anchorage International Airport (ANC) has revised the storm water monitoring plan based on the Alaska Department of Environmental Conservation (ADEC) letter dated January 24, 2014. As stated in the attachment to the ADEC referenced letter ANC anticipates sampling to begin in March 2014 as long as weather conditions generate a storm water discharge. Please find enclosed the storm water monitoring sample analysis plan.

If you have any questions or need additional information please contact Tracy Mitchell at 266-2467 or tracy.mitchell@alaska.gov or me at 266-2129 or scott.lytle@alaska.gov.

Sincerely,



Scott Lytle
Environmental Manager



Enclosure: Storm Water Monitoring Sample Analysis Plan, February 2014, Revision 1.2

cc w/enclosures:
Brent Andrews, ADEC Water Quality Compliance



STORM WATER MONITORING SAMPLE ANALYSIS PLAN

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT OUTFALL SAMPLING

FEBRUARY 2014 (REVISION 1.2)



Prepared By:

Restoration Science & Engineering, LLC | 911 West 8th Avenue, Suite 100 | Anchorage, Alaska 99501
Office: (907) 278-1023 | Fax: (907) 277-5718 | www.restorsci.com

Prepared For:

Ted Stevens Anchorage International Airport | P.O. Box 196960 | Anchorage, Alaska 99519

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Figure 1 – Outfall Location Map

Attachments

Attachment A – ANC Storm Water Monitoring and Sample Collection Field Form

Attachment B – Example SGS North America, Inc. Chain-of-Custody

List of Abbreviations

AAC	Alaska Administrative Code
ADEC	Alaska Department of Environmental Conservation
ANC	Ted Stevens Anchorage International Airport
APDES	Alaska Pollution Discharge Elimination System
BOD	Biochemical Oxygen Demand
COC	Chain-of-Custody
COD	Chemical Oxygen Demand
°C	degrees Celsius – unit of measurement
DL	Detection Limit
DO	Dissolved Oxygen
ELG	Effluent Limit Guideline
EPA	Environmental Protection Agency
ft/sec	feet per second – unit of measurement
H₂SO₄	Sulfuric Acid
HDPE	High Density Poly-Ethylene
LOD	Limit of Detection
LOQ	Limit of Quantitation
mg/L	milligrams per liter – unit of measurement
ml	milliliters – unit of measurement
MSGP	Multi-Sector General Permit
oz	ounces – unit of measurement
QAP	Quality Assurance Plan
SAP	Sample Analysis Plan

1.0 General Scope of Work

The following information provides the means and methods for storm water sampling at five (5) Outfalls (A, B, C, D, and E) located at the Ted Stevens Anchorage International Airport (ANC). The storm water monitoring requirements were originally proposed by the Alaska Department of Environmental Conservation (ADEC) on December 2, 2013 and amended in a letter from the ADEC to ANC on January 24, 2014.

2.0 Reference Regulation or Guidance Documents

ADEC Alaska Pollution Discharge Elimination System (APDES) regulates pollutant discharge under ADEC 18 AAC 83 (effective April 8, 2012). ADEC 18 AAC 70 Water Quality Standards (amended April 8, 2012) sets forth specific water quality criteria for designated uses. 18 AAC 70 specifically addresses dissolved oxygen, temperature, pH, oil & grease, and residue, among other parameters.

3.0 General Field Sampling Means and Methods

3.1 Flow Measurements

Flow measurements shall be made at Outfall D using a portable flow meter (e.g. Marsh McBirney Flo-Mate). Flow measurements shall be recorded in feet per second (ft/sec) and recorded on the field form or data sheet for the project. If site conditions limit the use of a portable flow meter, a “float method” may be used to measure the time of travel between two known points. If the “float method” is used both the time and distance traveled shall be included within the field notes. Multiple readings are encouraged during each sampling event to account for variable flow during sample collection. The field sampler shall estimate the channel cross sectional area by measuring the channel width and collecting numerous depth measurements along the width of the channel. Climatic conditions may influence flow at the Outfall. Ambient air temperature, precipitation, and wind speed shall be estimated and included on the field form.

3.2 Water Quality Measurements

Dissolved oxygen (DO), temperature, and pH are fundamental water quality parameters and measured in the field using a water quality meter. For purposes of this project, a YSI 556 MPS multi-parameter handheld instrument, or equivalent water quality meter, shall be used. Calibration of the water quality instrument is required prior to the monthly sampling events. Calibration records shall be maintained in the project file for quality assurance purposes and consideration of data evaluation. Post-field calibration checks of the water quality instrument are required for data validation.

The multi-parameter probe shall be placed within the water column (completely submerged either vertically or horizontally) in a manner which is representative of the sample collection area (i.e. in the middle of the water column, suspended so as not to touch the bottom, but below the water surface). At least five water quality measurements for each parameter at 0 minutes, 3 minutes, 6 minutes, 9 minutes, and 12 minutes is recommended as variability may occur during sample collection while the

instrument stabilizes and senses changes in the water quality. Generally, pH and temperature stabilize before DO.

For data comparison to applicable regulation or water quality standards, DO shall be measured in mg/L.

Water quality measurements are required at all Outfalls (A, B, C, D, and E) and shall be collected monthly during any routine or opportunistic sampling event. Water quality measurements shall be recorded on the attached data sheet for each Outfall and sampling event.

3.3 Visual Observations

Residues are not allowed in surface waters as described in 18 AAC 70. The field technician shall make visual observations of residues including, floating solids, debris, sludge, deposits, foam, scum or other residues at each Outfall or sample collection point. Observations of residues shall be included within the attached data sheet for each Outfall and sampling event, and photo documented. Notes shall include the type of residue(s), estimated percent cover within a 1 meter by 1 meter area, color, and other physical characteristics as observed. Photos shall be organized by Outfall and sample date, and digitally archived for future reporting. Residue observations are required at Outfalls A, B, and D only.

3.4 Laboratory Sample Methods

Oil & grease (Section 4.1), salinity (Section 4.2), turbidity (Section 4.10) and color (Section 4.11) laboratory samples shall be collected as *grab samples* using one of the four collection methods:

1. Low-flow sample techniques using a peristaltic pump with clean dedicated tubing at each sample location and each sampling event;
2. Submersible bailer (disposable) unique to each sample location and each sampling event;
3. Direct collection into laboratory provided method-specific container (discouraged as loss of sample preservative is possible); or
4. Using an outfall-specific unpreserved sterile laboratory-provided sample container to transfer the water sample to the method specific containers

Biochemical oxygen demand (Section 4.3), chemical oxygen demand (Section 4.4), total ammonia - nitrogen (Section 4.5), ethylene glycol (Section 4.6), propylene glycol (Section 4.7), total organic carbon (Section 4.8) and total suspended solids (Section 4.9) laboratory samples shall be collected as *composite samples*. The *composite sample* shall be collected by using *grab sample* technique number 4, described above, to collect three (3) individual aliquots. The three (3) grab sample aliquots shall be collected 15 minutes apart during the first three hours of the discharge. Each aliquot shall be transferred directly into the laboratory-provided method specific container such that each of the three (3) grab sample aliquots represents 1/3 of the total container volume.

Regardless of sample collection method, water shall be placed into method-specific containers (bottles containing appropriate preservatives) provided by the contract laboratory. All sample containers shall be placed into a clean cooler and maintained between 2°C and 6°C. The samples (contained within the sample cooler) shall be transported under chain-of-custody (COC) to the contract laboratory. The

method-specific information described within this report is based upon information provided by SGS North America, Inc. (SGS) located in Anchorage, Alaska.

Each sample bottle shall be labeled and include the sample location name as the sample ID, sample collection time and date, and other information required by the laboratory. The following sample nomenclature is recommended.

Ex. If a sample was collected at Outfall "D" on January 15, 2014, the sample ID would be "D-011514" on all containers for that sampling event. The sample collection time shall be noted on the sample jar and COC, but not included in the sample ID nomenclature.

Sample collection information shall be included on the field form specific to the sample location and sampling event. Information regarding the sampling techniques and any deviations from accepted sample collection methods shall be documented and considered during data evaluation.

4.0 Analyte Specific Laboratory Sampling Information

4.1 Oil & Grease – Grab Sample

Oil & Grease sample collection requires two (2) 1 liter amber containers containing HCl preservative. Oil & Grease is analyzed using EPA Method 1664A. The sample must be extracted and analyzed within 28 days after sample collection. Oil & Grease sample collection is required monthly at each Outfall sample location for the entirety of the project unless otherwise approved by the ADEC for a reduced sample frequency or elimination altogether.

4.2 Salinity (from Chloride) – Grab Sample

Salinity sample collection requires one (1) 1 liter HDPE container (without any preservative). The salinity sample may be extracted from the same 1 liter HDPE container used for the biochemical oxygen demand (BOD) sample. Salinity (from Chloride) is analyzed using EPA Method 300.0. The sample must be extracted and analyzed within 28 days after sample collection. Salinity sample collection is required monthly at Outfall sample locations D and E only for the entirety of the project unless otherwise approved by the ADEC for a reduced sample frequency or elimination altogether.

4.3 Biochemical Oxygen Demand (5 Day) – Composite Sample

BOD (5 day) sample collection requires one (1) 1 liter HDPE container (without any preservative). The BOD sample may be extracted from the same 1 liter HDPE container used for the salinity. BOD is analyzed using SM21 5210B. The sample must be extracted and analyzed within 48 hours after sample collection. BOD sample collection is required monthly at each Outfall sample location for the entirety of the project.

4.4 Chemical Oxygen Demand – Composite Sample

Chemical oxygen demand (COD) sample collection requires one (1) 250 ml HDPE container containing sulfuric acid (H₂SO₄). The COD sample may be extracted from the same 250 ml HDPE container used for

the ammonia sample. COD is analyzed using EPA 410.4. The sample must be extracted and analyzed within 28 days after sample collection. COD sample collection is required monthly at each Outfall sample location for the entirety of the project.

4.5 Total Ammonia Nitrogen – Composite Sample

Ammonia-N sample collection requires one (1) 250 ml HDPE container containing sulfuric acid (H_2SO_4). The ammonia-N sample may be extracted from the same 250 ml HDPE container used for the COD sample. Ammonia-N is analyzed using SM21 4500-HN3. The sample must be extracted and analyzed within 28 days after sample collection. Ammonia-N sample collection is required monthly at each Outfall sample location for the entirety of the project unless otherwise approved by the ADEC for a reduced sample frequency or elimination altogether.

4.6 Ethylene Glycol – Composite Sample

Ethylene glycol collection requires one (1) 4 oz. amber container (without any preservative). The ethylene glycol sample may be extracted from the same 4 oz. container jar used for the propylene glycol sample. Ethylene glycol is analyzed using SW 8015. The sample must be extracted and analyzed within 14 days after sample collection. Ethylene glycol will be analyzed by Bio-Chem, a SGS “network” laboratory, located in Grand Rapids, MI. Ethylene glycol sample collection is required monthly at each Outfall sample location between November and July only. However, as few as four samples may be collected as there are months where no flow is observed.

4.7 Propylene Glycol – Composite Sample

Propylene glycol collection requires one (1) 4 oz. amber container (without any preservative). The propylene glycol sample may be extracted from the same 4 oz. container jar used for the ethylene glycol sample. Propylene glycol is analyzed using SW 8015. The sample must be extracted and analyzed within 14 days after sample collection. Ethylene glycol will be analyzed by Bio-Chem, a SGS “network” laboratory, located in Grand Rapids, MI. Ethylene glycol sample collection is required monthly at each Outfall sample location between November and July only. However, as few as four samples may be collected as there are months where no flow is observed.

4.8 Total Organic Carbon – Composite Sample

Total Organic Carbon (TOC) requires one (1) 125 mL amber container containing HCl preservative. TOC is analyzed using SM 5310. The sample must be extracted and analyzed within 28 days after sample collection. TOC sample collection is required monthly at each Outfall sample location for the entirety of the project.

4.9 Total Suspended Solids – Composite Sample

Total Suspended Solids (TSS) requires one (1) 1 L HDPE container (without any preservative). TSS is analyzed using SM 2540D. The sample must be extracted and analyzed within seven days after sample collection. TSS sample collection is required monthly at each Outfall sample location for the entirety of the project.

4.10 Turbidity – Grab Sample

Turbidity collection requires one (1) 60 mL Nalgene container (without any preservative). Turbidity is analyzed using SM 2130B. The sample must be extracted and analyzed within 48 hours after sample collection. Turbidity sample collection is required monthly at Outfall sample locations A, B and C only for the entirety of the project.

4.11 Color – Grab Sample

Color collection requires one (1) 125 mL HDPE container (without any preservative). Color is analyzed using SM 2120B. The sample must be extracted and analyzed within 48 hours after sample collection. Color sample collection is required monthly at Outfall sample locations A, B and C only for the entirety of the project.

4.12 Sample Collection Requirement Summary Table

The following table illustrates the sample collection requirements per Outfall. The table assumes discrete sample containers are used for each analyte. Using discrete sample containers and not combining various analyses extracted from a single container except for ethylene glycol and propylene glycol is recommended. Using discrete containers reduces the chance for laboratory contamination from multiple extractions, reduces risk regarding failed hold times, and ensures adequate sample volume for analysis. In addition to the preservatives listed in Table 1, all sample containers shall be maintained between 2°C and 6°C for preservation. All laboratory methods are specifically listed in CFR Part 136 except for salinity (EPA 300.0), ethylene glycol (SW 8015B) and propylene glycol (SW 8015B). Testing methods EPA 300.0 and SW 8015B are EPA and ADEC approved. The specific EPA 300.0 and SW 8015B lab method protocols shall be provided upon request for ADEC review of this sample analysis plan.

Table 1 – Sample Collection Requirements

Analysis	Lab Method	Sample Type	Container Size	Container Type	Preservative	Hold Time
Oil & Grease	EPA 1664A	Grab	Two (2) 1 L	Amber	HCl	28 days
Salinity	EPA 300.0	Grab	One (1) 1 L	HDPE	None	28 days
BOD (5 day)	SM 5210B	Composite	One (1) 1 L	HDPE	None	48 hours
COD	EPA 410.4	Composite	One (1) 250 mL	HDPE	H ₂ SO ₄	28 days
Ammonia-N	SM 4500-HN3	Composite	One (1) 250 mL	HDPE	H ₂ SO ₄	28 days
Ethylene Glycol	SW 8015	Composite	One (1) 4 oz.	Amber	None	14 days
Propylene Glycol	SW 8015	Composite	One (1) 4 oz.	Amber	None	14 days
TOC	SM 5310	Composite	One (1) 125 mL	Amber	HCl	28 days
TSS	SM 2540D	Composite	One (1) 1 L	HDPE	None	7 days
Turbidity	SM 2130B	Grab	One (1) 60 mL	Nalgene	None	48 hours
Color	SM 2120B	Grab	One (1) 125 mL	HDPE	None	48 hours

5.0 Laboratory Quality Assurance / Quality Control

The following table describes the laboratory quality assurance limits included within SGS internal quality assurance plan (QAP).

Table 2 – SGS North America, Inc. Laboratory Limits

Analysis	Lab Method	Detection Limit (DL)	Limit of Detection (LOD)	Limit of Quantitation (LOQ)	Recovery Limits	RPD Limits
Oil & Grease	EPA 1664A	1.2 mg/L	2 mg/L	4 mg/L	78% to 114%	18%
Salinity	EPA 300.0	-	-	-	90% to 110%	20%
BOD (5 day)	SM21 5210B	2 mg/L	2 mg/L	2 mg/L	84.6% to 115%	-
COD	EPA 410.4	6.2 mg/L	10 mg/L	20 mg/L	90% to 110%	25%
Ammonia-N	SM21 4500-HN3	0.031 mg/L	0.05 mg/L	0.1 mg/L	75% to 125%	25%
Ethylene Glycol	SW 8015	10 mg/L	10 mg/L	-	73.3% to 129%	20%
Propylene Glycol	SW 8015	10 mg/L	10 mg/L	-	72% to 123%	20%
TOC	SM 5310	0.15 mg/L	0.3 mg/L	0.5 mg/L	80% to 120%	-
TSS	SM 2540D	0.15 mg/L	0.3 mg/L	0.5 mg/L	75% to 125%	-
Turbidity	SM 2130B	0.05 NTU	0.1 NTU	0.1 NTU	90% to 110%	-
Color	SM 2120B	-	-	-	-	-

The actual limits may change as the lab's ability to detect compounds at a certain concentration is based upon sample volume and/or matrix interference.

6.0 Sample Collection Scheduling

The following scheduled is based upon storm water monitoring requirements presented by the ADEC in a letter to Mr. John Johansen dated January 24, 2014 with a hypothetical March 2014 start date and assuming 20 months of sampling (unless otherwise noted).

Table 3 – Sample Frequency Required at Outfalls A, B, C, D, and E (except Salinity which is sampled from Outfalls D and E only; and Turbidity and Color which is sampled from Outfalls A, B and C, only)

Month	Oil & Grease	Salinity	BOD (5 day)	COD	Ammonia -N	Ethylene Glycol	Propylene Glycol	TOC	TSS	Turbidity	Color
MAR-14	X		X	X	X	X	X	X	X	X	X
APR-14	X	X	X	X	X	X	X	X	X	X	X
MAY-14	X	X	X	X	X	X	X	X	X	X	X
JUN-14	X	X	X	X	X	X	X	X	X	X	X
JUL-14	X	X	X	X	X	X	X	X	X	X	X
AUG-14	X	X	X	X	X			X	X	X	X
SEP-14	X	X	X	X	X			X	X	X	X
OCT-14	X	X	X	X	X			X	X	X	X
NOV-14	X	X	X	X	X	X	X	X	X	X	X
DEC-14	X		X	X	X	X	X	X	X	X	X
JAN-15	X		X	X	X	X	X	X	X	X	X
FEB-15	X		X	X	X	X	X	X	X	X	X
MAR-15	X		X	X	X	X	X	X	X	X	X
APR-15	X	X	X	X	X	X	X	X	X	X	X
MAY-15	X	X	X	X	X	X	X	X	X	X	X
JUN-15	X	X	X	X	X	X	X	X	X	X	X
JUL-15	X	X	X	X	X	X	X	X	X	X	X
AUG-15	X	X	X	X	X			X	X	X	X
SEP-15	X	X	X	X	X			X	X	X	X
OCT-15	X	X	X	X	X			X	X	X	X
Total Sampling Events	20	15	20	20	20	16	16	20	20	20	20

Historic sampling event data at the Outfalls suggests frozen conditions may prohibit winter time (October through April) sampling. Table 4 shows the number of successful winter time sampling events at ANC Outfalls A, B, C, D, and E between 2003 and 2013 according to ANC.

Table 4 – Number of Successful Winter Time Sampling Events between 2003 and 2013 at ANC Outfalls

	Outfall A	Outfall B	Outfall C	Outfall D	Outfall E
OCT	7	7	7	7	7
NOV	0	0	0	0	0
DEC	0	1	0	0	0
JAN	0	0	0	0	0
FEB	0	0	0	1	0
MAR	2	2	1	2	2
APR	6	6	3	5	6

Additional opportunistic sampling events may occur to supplement data for APDES permit or modeling needs. Opportunist sampling may occur as a reallocation of the ADEC proposed sampling event frequency. For example, in the event that frozen conditions prohibit sampling during winter months, ANC shall allocate those samples to supplement sampling events during increased flows caused from break up (April and May) and increased flows from heavy seasonal precipitation events (August and September).

7.0 Note Taking and Record Keeping

Field notes shall be recorded on the attached *ANC Storm Water Monitoring and Sample Collection Field Form* (hereafter referred to as Form). One Form should be used at each Outfall for each sampling event. Prior to leaving the sample collection area, the field form shall be reviewed for accurate and correct information. Anomalous or unexpected field readings should be re-analyzed or measured to validate the original data reading.

Upon returning from the field, the sampler shall scan the Form and save the digital copy to the project folder. A digital copy shall be e-mailed to the designated ANC Project Manager.

Laboratory samples shall be immediately recorded on the lab-provided COC. The sampler shall include all information required on the COC including, sample identification (ex. D-011514), date, time, matrix, number of sample containers, type of sample (e.g. grab), requested analysis including the lab method and preservatives used. An Example COC is provided as an attachment to this SAP.

Samples shall be delivered to the SGS North America, Inc. immediately. Please recall BOD (5-day) has a 48 hold time. Special consideration shall be made if a sampling event occurs on a Friday. Please notify the ANC Project Manager to authorize “after hours” laboratory services.

Once the laboratory samples are submitted, the signed COC shall be scanned and a digital copy saved to the file.

Upon receiving the SGS North America, Inc. signed laboratory sample report a digital copy shall be saved to the project file and copy shall be e-mailed to the designated ANC Project Manager. Both the .PDF copy and the raw Excel data file shall be saved in the project file.

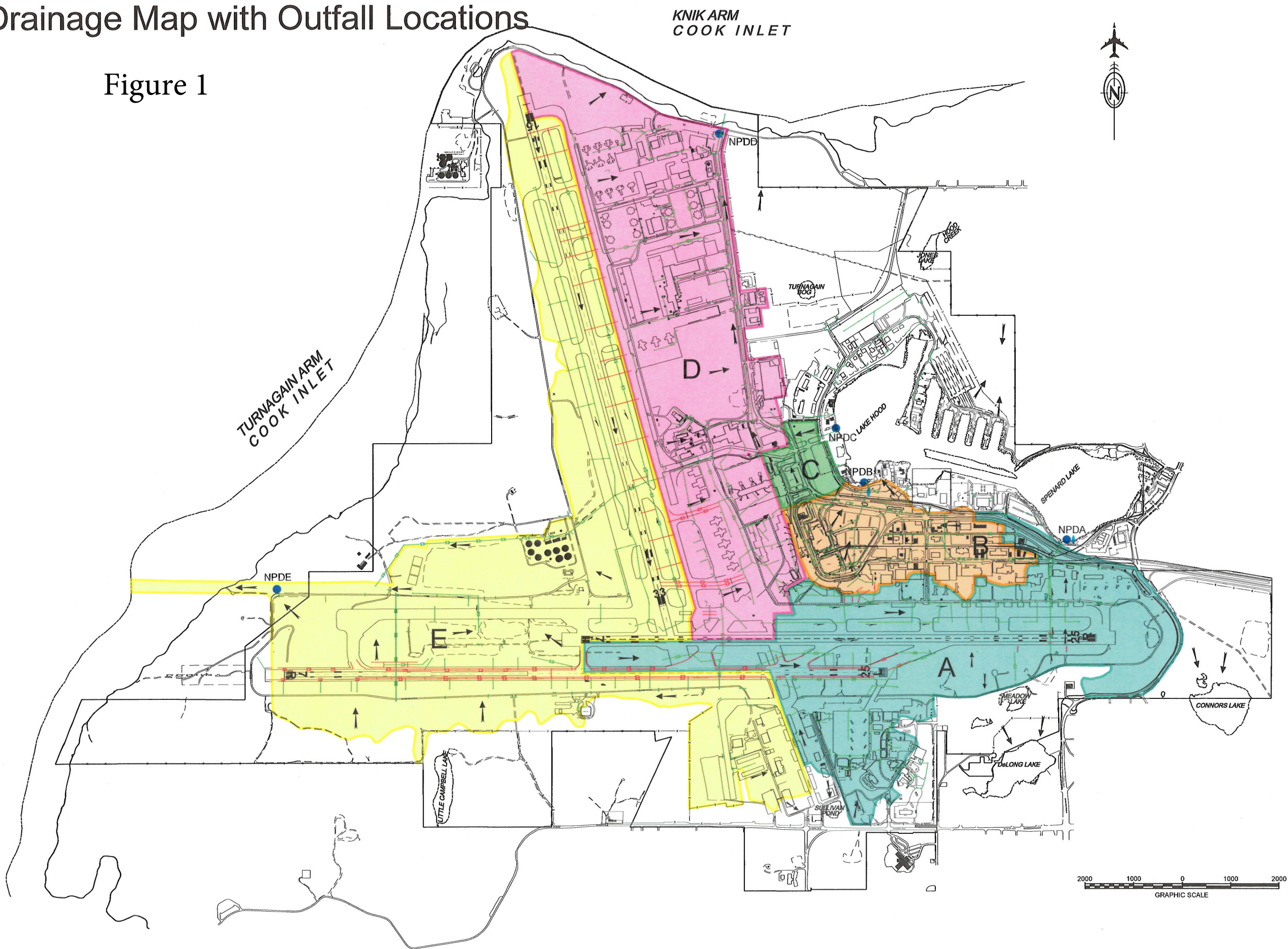
As per ADEC request, laboratory results for samples collected between March 2014 and October 2014 shall be submitted to the ADEC 30 days after receiving the October 2014 laboratory report. Similarly, laboratory results for samples collected between November 2014 and October 2015 shall be submitted to the ADEC 30 days after receiving the October 2015 laboratory report.

Figures

Figure 1 – Outfall Location Map

Drainage Map with Outfall Locations

Figure 1



Attachments

Attachment A – ANC Storm Water Monitoring and Sample Collection Field Form

Attachment B – Example SGS North America, Inc. Chain-of-Custody

OUTFALL ID: _____
FIELD SAMPLER: _____TIME: _____
OTHER TEAM MEMBERS: _____

WATER FLOW INFORMATION

	MEASUREMENT 1	MEASUREMENT 2	MEASUREMENT 3
A) DISTANCE BETWEEN TWO POINTS (FT):	_____	_____	_____
B) TIME OF TRAVEL (SEC):	_____	_____	_____
C) VELOCITY (FT/SEC):	_____	_____	_____

*row "A" value divided row "B" value

CLIMATE INFORMATION

SAMPLE METHOD: _____
*e.g. peristaltic pump, disposable bailer or grab sample

PRECIPITATION (LIGHT, MODERATE, HEAVY): _____

SAMPLE EVENT TYPE (CIRCLE ONE): _____

ESTIMATED WIND SPEED (MPH): _____

RAINFALL

TEMPERATURE (°C): _____

SNOW MELT

CLOUD COVER (CLEAR, PARTLY CLOUDY, CLOUDY): _____

RAIN ON SNOW

FIELD PARAMETERS

INSTRUMENT: _____
*e.g. YSI 556

TIME	TEMP. (°C)	pH (pH Units)	SALINITY (ppt)	DISSOLVED OXYGEN (mg/L)
0 MIN				
3 MIN				
6 MIN				
12 MIN				

RESIDUE TYPE (CIRCLE)	PERCENT COVER WITHIN A 1 METER by 1 METER AREA	COLOR	PHOTO (YES/NO)
FLOATING SOLIDS			
DEBRIS			
SLUDGE			
FOAM			
SCUM			
OTHER			

OTHER COMMENTS: _____

SAMPLE INFORMATION

SAMPLE DATE: _____

SAMPLE ID: _____

SAMPLE TIME: _____

FIELD DUPLICATE: _____

SAMPLER: _____

LAB ANALYSIS REQUESTED:

COMMENTS:

SAMPLER SIGNATURE: _____

SCAN TO DIGITAL FILE (CIRCLE): YES NO

PRINTED NAME: _____

SCAN TO CLIENT (CIRCLE): YES NO

PHOTOS SAVED TO FILE (CIRCLE): YES NO

ATTACHMENT No. 2

STATEMENT OF CERTIFICATION

The information provided shall be submitted with the following certification including signature from an authorized signatory as specified in 18 AAC 83.385(d).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John Parrott
Printed Name


Signature

Ted Stevens Anchorage
Organization
International Airport

Airport Manager
Title

2/21/14
Date

john.parrott@alaska.gov
Email



THE STATE
of **ALASKA**
GOVERNOR SEAN PARNELL

Department of Transportation and
Public Facilities

Alaska International Airport System
Ted Stevens Anchorage International Airport

Post Office Box 196960
Anchorage, Alaska 99519-6960
Main: 907.266.2526
Fax: 907.243.0663

November 12, 2014

Mr. William Ashton
Alaska Department of Environmental Conservation
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, AK 99501

Re: Ted Stevens Anchorage International Airport Storm Water Sampling Pursuant to Clean Water Act Section 308 and 18 AAC 83.425(d)

Dear Mr. Ashton:

The Ted Stevens Anchorage International Airport is submitting the first year's storm water monitoring results requested from the Alaska Department of Environmental Conservation (ADEC) pursuant to the Clean Water Act Section 308 and 18 AAC 83.425(d). These results are from March 2014 through October 2014 and are being submitted within thirty days of the laboratory results from October 2014 sampling event. They include all monitoring parameter requirements specified in ADEC's letter dated January 24, 2014.

These storm water sampling results are being submitted with the following certification and signature from the authorized signatory for the Airport.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

A handwritten signature in blue ink, appearing to read "John Parrott".

John Parrott, AAE
Airport Manager



TLM/

Enclosures:

- 1) Ted Stevens Anchorage International Airport Storm Water Monitoring Results March 2014 - October 2014 - Laboratory Data
- 2) Ted Stevens Anchorage International Airport Storm Water Monitoring Results March 2014 - October 2014 – Water Quality

cc w/ enclosures: Scott Lytle, ANC/Environmental

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT
OUTFALL STORMWATER MONITORING - Laboratory Data
LOCATION: OUTFALL A

PARAMETER	OIL & GREASE	SALINITY	BIOCHEMICAL OXYGEN DEMAND (5-DAY)	CHEMICAL OXYGEN DEMAND	TOTAL AMMONIA NITROGEN	ETHYLENE GLYCOL	PROPYLENE GLYCOL	TOTAL ORGANIC CARBON	TOTAL SUSPENDED SOLIDS	TURBIDITY	COLOR
LABORATORY METHOD	EPA 1664A	EPA 300.0	SM 5210B	EPA 410.4	SM 4500-NH3	SW 8015	SW 8015	SM 5310	SM 2540D	SM 2130B	SM 2120B
UNITS	(mg/L)	ppT	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(NTU)	(PCU)
MAR-14	2.30 J	0.0558	32.3	150	4.66	20,000	14,000	24.5	18.0	37.0	60.0
APR-14	<2. U	0.0802	10.1	46.8	14.9	12,000	14,000	15.1	35.7	37.0	65.0
MAY-14	1.60 J	0.00729	55.1	167	18.8	<10,000	<10,000	52.7	28.0	34.0	80.0
JUN-14	2.20 J	0.00410	33.8	108	4.06	<10,000	<10,000	34.7	32.0	19.0	80.0
JUL-14	2.70 J	0.0122	3.31	40.7	13.2	<10,000	<10,000	6.89	2.67	5.90	40.0
AUG-14	2.70 J	0.0127	2.04	24.4	10.2	N/A	N/A	6.45	1.33 J	2.20	25.0
SEP-14	2.04 J	0.0111	2.00 U	<10. U	0.417	N/A	N/A	3.40	2.33	3.30	7.50
OCT-14	2.80 J	0.00169	9.36	33.5	0.367	N/A	N/A	8.64	54.3	36.0	40.0

- NOTES:
- 1) J-flag indicates the sample result quantitation is an estimated value.
 - 2) U-flag indicates the analyte was analyzed but not detected.
 - 3) N/A means the sample was not analyzed. Ethylene glycol and propylene glycol are only required November through July.

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT

OUTFALL STORMWATER MONITORING - Laboratory Data

LOCATION: OUTFALL B

PARAMETER	OIL & GREASE	SALINITY	BIOCHEMICAL OXYGEN DEMAND (5-DAY)	CHEMICAL OXYGEN DEMAND	TOTAL AMMONIA NITROGEN	ETHYLENE GLYCOL	PROPYLENE GLYCOL	TOTAL ORGANIC CARBON	TOTAL SUSPENDED SOLIDS	TURBIDITY	COLOR
LABORATORY METHOD	EPA 1664A	EPA 300.0	SM 5210B	EPA 410.4	SM 4500-NH3	SW 8015	SW 8015	SM 5310	SM 2540D	SM 2130B	SM 2120B
UNITS	(mg/L)	ppT	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(NTU)	(PCU)
MAR-14	3.16 J	0.118	215	429	0.550	28,000	160,000	141	32.4	75.0	80.0
APR-14	<2. U	0.0279	25.6	152	0.605	<10,000	15,000	34.7	12.0	17.0	70.0
MAY-14	1.70 J	0.0158	2.80	<10. U	0.462	<10,000	89,000	3.89	4.80	4.40	5.00 U
JUN-14	2.20 J	0.0459	15.3	49.8	1.31	<10,000	<10,000	19.1	8.00	18.0	70.0
JUL-14	2.49 J	0.0145	2.06	47.3	0.465	<10,000	<10,000	3.28	1.00 J	12.0	7.50
AUG-14	2.04 J	0.0179	2.00 U	19.6 J	0.853	N/A	N/A	4.90	3.00	6.60	10.0
SEP-14	2.40 J	0.0126	2.19	16.6 J	5.89	N/A	N/A	6.17	1.67	2.60	25.0
OCT-14	2.50 J	0.0192	10.2	26.5	0.933	N/A	N/A	8.79	11.3	8.70	15.0

- NOTES:
- 1) J-flag indicates the sample result quantitation is an estimated value.
- 2) U-flag indicates the analyte was analyzed but not detected.
- 3) N/A means the sample was not analyzed. Ethylene glycol and propylene glycol are only required November through July.

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT

OUTFALL STORMWATER MONITORING - Laboratory Data

LOCATION: OUTFALL C

PARAMETER	OIL & GREASE	SALINITY	BIOCHEMICAL OXYGEN DEMAND (5-DAY)	CHEMICAL OXYGEN DEMAND	TOTAL AMMONIA NITROGEN	ETHYLENE GLYCOL	PROPYLENE GLYCOL	TOTAL ORGANIC CARBON	TOTAL SUSPENDED SOLIDS	TURBIDITY	COLOR
LABORATORY METHOD	EPA 1664A	EPA 300.0	SM 5210B	EPA 410.4	SM 4500-NH3	SW 8015	SW 8015	SM 5310	SM 2540D	SM 2130B	SM 2120B
UNITS	(mg/L)	ppT	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(NTU)	(PCU)
MAR-14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
APR-14	<2. U	0.00776	1630	3140	1.56	38,000	1,500,000	744	30.0	36.0	70.0
MAY-14	3.00 J	0.0116	1370	2160	4.31	12,000	700,000	575	84.0	85.0	200
JUN-14	2.20 J	0.0137	10.6	51.9	3.56	<10,000	<10,000	13.1	13.0	24.0	40.0
JUL-14	2.60 J	0.00316	2.76	17.2 J	1.90	<10,000	<10,000	5.52	9.33	10.0	25.0
AUG-14	2.70 J	0.00879	10.2	47.0	3.99	N/A	N/A	8.80	14.5	15.0	15.0
SEP-14	2.60 J	0.00234	2.00 U	8.05 J	0.537	N/A	N/A	3.79	9.33	3.30	15.0
OCT-14	3.09 J	0.00187	2.55	<10. U	0.313	N/A	N/A	2.11	3.40	5.10	5.00

- NOTES:
- 1) J-flag indicates the sample result quantitation is an estimated value.
- 2) U-flag indicates the analyte was analyzed but not detected.
- 3) N/A means the sample was not analyzed. Ethylene glycol and propylene glycol are only required November through July.

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT

OUTFALL STORMWATER MONITORING - Laboratory Data

LOCATION: OUTFALL D

PARAMETER	OIL & GREASE	SALINITY	BIOCHEMICAL OXYGEN DEMAND (5-DAY)	CHEMICAL OXYGEN DEMAND	TOTAL AMMONIA NITROGEN	ETHYLENE GLYCOL	PROPYLENE GLYCOL	TOTAL ORGANIC CARBON	TOTAL SUSPENDED SOLIDS	TURBIDITY	COLOR
LABORATORY METHOD	EPA 1664A	EPA 300.0	SM 5210B	EPA 410.4	SM 4500-NH3	SW 8015	SW 8015	SM 5310	SM 2540D	SM 2130B	SM 2120B
UNITS	(mg/L)	ppT	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(NTU)	(PCU)
MAR-14	10.5	0.0299	1430	2930	0.638	210,000	870,000	766	313	240	100
APR-14	<2. U	0.00668	1040	1800	0.849	15,000	1,000,000	551	13.5	50.0	65.0
MAY-14	7.60	0.0384	561	1090	3.29	12,000	190,000	26.1	177	75.0	250
JUN-14	2.60 J	0.00750	279	473	3.06	<10,000	27,000	172	50.0	35.0	130
JUL-14	3.00 J	0.00104	7.19	65.6	0.425	<10,000	<10,000	8.65	28.7	23.0	40.0
AUG-14	3.40 J	0.00465	13.1	63.7	1.42	N/A	N/A	15.3	18.0	17.0	65.0
SEP-14	2.10 J	0.00154	5.22	24.2	0.436	N/A	N/A	9.17	11.3	8.30	60.0
OCT-14	2.70 J	0.00342	4.99	12.1 J	0.120	N/A	N/A	5.57	28.3	22.0	35.0

- NOTES:
- 1) J-flag indicates the sample result quantitation is an estimated value.
- 2) U-flag indicates the analyte was analyzed but not detected.
- 3) N/A means the sample was not analyzed. Ethylene glycol and propylene glycol are only required November through July.

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT

OUTFALL STORMWATER MONITORING - Laboratory Data

LOCATION: OUTFALL E

PARAMETER	OIL & GREASE	SALINITY	BIOCHEMICAL OXYGEN DEMAND (5-DAY)	CHEMICAL OXYGEN DEMAND	TOTAL AMMONIA NITROGEN	ETHYLENE GLYCOL	PROPYLENE GLYCOL	TOTAL ORGANIC CARBON	TOTAL SUSPENDED SOLIDS	TURBIDITY	COLOR
LABORATORY METHOD	EPA 1664A	EPA 300.0	SM 5210B	EPA 410.4	SM 4500-NH3	SW 8015	SW 8015	SM 5310	SM 2540D	SM 2130B	SM 2120B
UNITS	(mg/L)	ppT	(mg/L)	(mg/L)	(mg/L)	(ug/L)	(ug/L)	(mg/L)	(mg/L)	(NTU)	(PCU)
MAR-14	2.80 J	0.00323	247	446	0.122	22,000	130,000	172	8.40	14.0	90.0
APR-14	<2. U	0.00304	26.1	72.9	0.316	<10,000	51,000	21.7	8.33	10.0	70.0
MAY-14	2.20 J	0.00309	39.6	94.7	24.9	11,000	27,000	308	17.3	31.0	560
JUN-14	2.20 J	0.00192	8.69	57.3	6.18	<10,000	<10,000	17.6	6.67 J	22.0	70.0
JUL-14	2.90 J	0.00135	15.4	102	1.97	<10,000	<10,000	13.2	12.7	13.0	70.0
AUG-14	2.15 J	0.00571	5.00	78.2	23.9	N/A	N/A	16.6	10.5	3.10	55.0
SEP-14	2.50 J	0.00130	3.24	46.2	0.186	N/A	N/A	11.6	6.50	9.20	90.0
OCT-14	2.58 J	0.00489	6.93	40.1	4.09	N/A	N/A	11.8	5.25	8.70	40.0

- NOTES:
- 1) J-flag indicates the sample result quantitation is an estimated value.
- 2) U-flag indicates the analyte was analyzed but not detected.
- 3) N/A means the sample was not analyzed. Ethylene glycol and propylene glycol are only required November through July.

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT OUTFALL
STORMWATER MONITORING - Water Quality
LOCATION: OUTFALL A

PARAMETER	FLOW			TEMPERATURE				pH				SALINITY				DISSOLVED OXYGEN			
MEASUREMENT	1	2	3	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
UNITS	(ft/sec)	(ft/sec)	(ft/sec)	(°C)	(°C)	(°C)	(°C)	(pH UNITS)	(pH UNITS)	(pH UNITS)	(pH UNITS)	ppT	ppT	ppT	ppT	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MAR-14	N/A	N/A	N/A	0.23	0.24	0.22	0.20	6.32	6.68	6.74	6.75	33.1	15.3	12.2	11.9	7.14	6.92	6.04	5.63
APR-14	N/A	N/A	N/A	0.92	0.87	0.81	0.75	6.64	6.70	6.74	6.77	17.3	14.2	12.0	10.5	4.85	4.65	4.60	4.54
MAY-14	N/A	N/A	N/A	9.06	9.11	9.17	9.25	7.45	7.53	7.51	7.5	N/A	N/A	N/A	N/A	0.63	0.39	0.68	1.2
JUN-14	2.14	3.0	1.69	11.23	11.19	11.16	11.13	6.74	7.24	7.32	7.34	N/A	N/A	N/A	N/A	3.08	2.89	2.97	3.13
JUL-14	7.3	8.3	6.6	12.60	12.40	12.37	12.38	6.35	6.38	6.41	6.40	N/A	N/A	N/A	N/A	4.71	4.72	4.71	4.69
AUG-14	0.05	0.04	0.04	16.1	16.1	16.00	16.20	7.05	7.13	7.46	7.37	0.1	0.1	0.0	0.1	N/A	N/A	N/A	N/A
SEP-14	0	0	0	13.93	14.02	14.03	14.05	7.05	7.41	7.54	7.54	N/A	N/A	N/A	N/A	5.76	5.02	4.84	4.85
OCT-14	1.67	1.25	1.67	4.08	4.09	3.96	4.01	6.99	6.55	6.69	6.93	N/A	N/A	N/A	N/A	12.86	11.45	10.78	9.92

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT OUTFALL
STORMWATER MONITORING - Water Quality
LOCATION: OUTFALL B

PARAMETER	FLOW			TEMPERATURE				pH				SALINITY				DISSOLVED OXYGEN			
MEASUREMENT	1	2	3	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
UNITS	(ft/sec)	(ft/sec)	(ft/sec)	(°C)	(°C)	(°C)	(°C)	(pH UNITS)	(pH UNITS)	(pH UNITS)	(pH UNITS)	ppT	ppT	ppT	ppT	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MAR-14	N/A	N/A	N/A	0.16	0.14	0.13	0.13	6.75	6.49	6.48	6.48	11.4	25.6	26.2	25.4	7.81	7.67	7.63	7.80
APR-14	1.11	1.40	1.78	0.11	0.12	0.12	0.12	6.70	6.78	6.79	6.79	13.8	10.0	9.7	9.6	6.61	3.56	3.41	3.36
MAY-14	1.36	1.46	1.26	4.69	4.69	4.70	4.71	7.71	7.75	7.77	7.77	N/A	N/A	N/A	N/A	3.31	3.21	3.17	3.15
JUN-14	N/A	N/A	N/A	11.16	11.13	11.24	11.20	7.05	7.13	7.13	7.13	N/A	N/A	N/A	N/A	2.39	2.62	2.33	2.37
JUL-14	1.0	0.6	1.67	6.05	7.07	6.96	6.94	7.21	7.42	7.45	7.45	N/A	N/A	N/A	N/A	3.54	3.13	3.15	3.05
AUG-14	1.0	1.2	1	8.5	8.5	8.40	8.70	6.79	7.04	6.99	7.18	.2	.2	.2	.2	N/A	N/A	N/A	N/A
SEP-14	0.79	0.73	0.75	6.63	6.59	6.59	6.53	7.64	7.69	7.68	7.68	N/A	N/A	N/A	N/A	3.19	3.08	3.06	3.01
OCT-14	1.0	0.89	0.91	5.04	4.96	4.99	4.99	7.01	7.03	7.05	7.09	N/A	N/A	N/A	N/A	7.66	11.16	8.06	7.69

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT OUTFALL
STORMWATER MONITORING - Water Quality
LOCATION: OUTFALL C

PARAMETER	FLOW			TEMPERATURE				pH				SALINITY				DISSOLVED OXYGEN			
MEASUREMENT	1	2	3	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
UNITS	(ft/sec)	(ft/sec)	(ft/sec)	(°C)	(°C)	(°C)	(°C)	(pH UNITS)	(pH UNITS)	(pH UNITS)	(pH UNITS)	ppT	ppT	ppT	ppT	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MAR-14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
APR-14	N/A	N/A	N/A	2.13	2.14	2.18	2.26	7.42	7.4	7.42	7.4	N/A	N/A	N/A	N/A	8.2	8.21	8.16	8.12
MAY-14	1.58	1.53	1.44	6.26	6.31	6.28	6.27	6.77	6.94	6.90	6.90	3.5	3.5	3.5	3.5	6.81	6.60	6.37	6.40
JUN-14	0.75	0.54	0.63	9.84	9.79	9.70	9.50	6.68	6.99	7.03	7.04	N/A	N/A	N/A	N/A	5.97	5.73	5.58	5.79
JUL-14	0.33	.33	.29	13.52	13.48	13.48	13.49	6.45	6.69	6.80	6.88	N/A	N/A	N/A	N/A	7.40	6.45	6.57	6.59
AUG-14	1.3	1.14	1.6	14.20	14.15	14.17	14.19	6.53	6.62	6.68	6.75	.1	.1	.1	.1	6.45	6.42	6.42	6.41
SEP-14	0.43	0.35	0.45	13.22	13.24	13.25	13.27	6.84	7.09	7.12	7.15	N/A	N/A	N/A	N/A	7.64	7.56	7.57	7.58
OCT-14	1.42	2.2	1.67	5.66	5.66	5.65	5.64	6.51	6.58	6.63	6.72	N/A	N/A	N/A	N/A	10.95	10.91	10.92	10.93

- NOTES:
- 1) Measurements collected *in situ* using a YSI Multiparameter System water quality meter.
 - 2) Multiple measurements made to document variability during sample collection period.
 - 3) N/A means the sample was not analyzed.

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT
OUTFALL STORMWATER MONITORING - Water Quality
LOCATION: OUTFALL D

PARAMETER	FLOW			TEMPERATURE				pH				SALINITY				DISSOLVED OXYGEN			
MEASUREMENT	1	2	3	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
UNITS	(ft/sec)	(ft/sec)	(ft/sec)	(°C)	(°C)	(°C)	(°C)	(pH UNITS)	(pH UNITS)	(pH UNITS)	(pH UNITS)	ppT	ppT	ppT	ppT	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MAR-14	N/A	N/A	N/A	1.22	1.22	1.19	1.20	6.81	6.96	6.95	6.95	1.0	0.4	0.8	1.0	10.90	10.40	10.31	10.29
APR-14	N/A	N/A	N/A	0.52	0.54	0.54	0.57	7.14	7.20	7.28	7.28	10.4	12.2	16.6	16.9	11.52	10.73	10.65	10.60
MAY-14	N/A	N/A	N/A	6.57	7.07	7.42	7.52	6.88	7.01	7.02	7.03	NT	NT	NT	NT	10.05	9.43	9.32	9.26
JUN-14	N/A	N/A	N/A	9.83	9.91	9.91	9.88	6.21	7.09	7.11	7.11	NT	NT	NT	NT	9.20	9.65	7.39	7.37
JUL-14	N/A	N/A	N/A	13.92	13.95	13.98	13.99	6.37	7.06	7.12	7.08	NT	NT	NT	NT	8.67	8.65	11.86	9.59
AUG-14	N/A	N/A	N/A	13.28	13.37	13.39	13.43	6.83	7.24	7.27	7.29	NT	NT	NT	NT	7.70	7.78	7.74	7.77
SEP-14	N/A	N/A	N/A	12.36	12.36	12.36	12.35	6.89	6.96	7.06	7.08	NT	NT	NT	NT	8.52	8.48	8.41	8.39
OCT-14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

TED STEVENS ANCHORAGE INTERNATIONAL AIRPORT
OUTFALL STORMWATER MONITORING - Water Quality
LOCATION: OUTFALL E

PARAMETER	FLOW			TEMPERATURE				pH				SALINITY				DISSOLVED OXYGEN			
MEASUREMENT	1	2	3	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
UNITS	(ft/sec)	(ft/sec)	(ft/sec)	(°C)	(°C)	(°C)	(°C)	(pH UNITS)	(pH UNITS)	(pH UNITS)	(pH UNITS)	ppT	ppT	ppT	ppT	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MAR-14	N/A	N/A	N/A	0.14	0.14	0.14	0.14	6.54	6.73	6.74	6.77	17.0	12.6	10.9	10.5	4.56	4.61	4.56	4.52
APR-14	0.87	0.69	1.19	0.01	0.01	0.02	0.01	7.12	7.28	7.36	7.36	8.3	15.7	20.8	21.0	7.03	6.87	6.83	6.79
MAY-14	1.6	1.26	1.35	7.24	7.23	7.24	7.23	7.26	7.27	7.27	7.27	N/A	N/A	N/A	N/A	1.71	1.42	1.42	1.45
JUN-14	1.03	1.04	1.14	8.73	8.73	8.79	8.74	7.14	7.15	7.14	7.15	N/A	N/A	N/A	N/A	3.87	3.85	3.99	3.93
JUL-14	N/A	N/A	N/A	10.95	10.93	10.92	10.91	6.75	6.92	6.99	7.02	N/A	N/A	N/A	N/A	4.03	3.88	3.86	3.91
AUG-14	0.61	0.48	0.71	12.01	11.99	11.98	11.97	7.12	7.49	7.50	7.50	N/A	N/A	N/A	N/A	2.73	2.44	2.44	2.46
SEP-14	1.16	0.99	1.08	11.27	11.3	11.32	11.33	6.88	7.06	7.09	7.09	N/A	N/A	N/A	N/A	6.21	6.18	6.17	6.11
OCT-14	0.53	0.6	0.67	4.01	4.01	4.00	3.99	7.16	7.2	7.21	7.22	N/A	N/A	N/A	N/A	6.33	6.31	6.34	6.38

- NOTES:
- 1) Measurements collected *in situ* using a YSI Multiparameter System water quality meter.
 - 2) Multiple measurements made to document variability during sample collection period.
 - 3) N/A means the sample was not analyzed.